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THE J. Chas. McCullough Seed Co.

1934



Tithonia Speciosa

This lovely plant was first discovered in Mexico and is sometimes called the Mexican Sunflower. An annual of rapid growth covered with brilliant orange-scarlet flowers 3 to 4 inches across, and can be cut with 2 to 3 ft. stems. Pkt., 20c.

Nasturtium, Golden Gleam

A sweet scented, double Nasturtium, forming a vigorous bush, with large, golden yellow flowers $2\frac{1}{2}$ to 3 inches across, and borne on erect, stiff stems 6 inches long. Large pkt., 15c.



Phone -
Parkway 2600

THE J. Chas.
McCullough
Seed Co.

230-232 E. Fourth St.

Near Sycamore

Cincinnati, Ohio.



“EMERALD” Lawn Seed

Tested for Purity and Growing Qualities in Our Own Laboratory, FOR YOUR PROTECTION

THERE IS NONE BETTER

“Emerald” Lawn Seed is composed of Kentucky Blue Grass, Red Top, English Rye Grass, White Clover and other fine grasses. (It does not contain any timothy or better known as hay seed). We combine these grasses because they grow quickly and protect the Blue Grass, which is slower to germinate, thereby giving not only a permanent lawn but a good sod in six weeks. For 67 years we have made a study of lawns and our experiments have shown us that for quick and permanent results our “Emerald” Lawn Grass Seed has never been excelled. We know that “Emerald” Lawn Seed will give satisfaction wherever a fine velvety turf is wanted, except in dense shade.

Quantities

For New Lawns. 1 lb. sows 250 sq. ft. (10x25 ft). An acre requires 80 to 100 lbs.

For Old Lawns. It will take about half as much seed as for a new lawn, depending on how thick a stand of grass there is, usually requiring 35 to 50 lbs. per acre for renovating.

Making Lawns

Preparation. The soil should be deeply spaded or plowed, thoroughly pulverized and raked fine and smooth, removing all roots, stones, clods, trash, etc. If not properly graded it should be done now, allowing for water to drain off and not stand in pools. If the lawn is made of clay from recent excavations, it should be covered with 3 or 4 inches of good rich garden soil before the seed is sown.

Fertilizers. Sacco Plant Food, Loma, Vigoro or Pulverized Sheep Manure are thoroughly satisfactory for lawns. Unless stable manure is well decomposed it contains weed seeds. Work the fertilizer into the soil at time of sowing seed.

Sowing. Seed can be sown in the spring from February to May or in the fall from August to October. To get it evenly distributed half the seed should be sown one way then cross and sow balance at right angles. The seed should be covered by raking or harrowing and then well rolled.

Renovating. If the grass is thin it is not necessary in most cases to plow up the entire lawn and reseed, though if it is choked with weeds and there is very little grass left it is decidedly preferable to plow up or spade up the entire lawn and seed over. Unless this is the case, however, raking over roughly with a sharp tooth rake and sowing more seed, will improve the lawn wonderfully. Grass usually dies out from lack of plant food, hence it is a good plan to apply Sacco Plant Food, Loma, Vigoro or Sheep Manure in March, April or May, after the growing season has started.

“LAWNS”—by Rockwell

The book “Lawns,” by F. F. Rockwell, is recommended as the best guide for a successful lawn. Full of suggestions on laying out the lawn, grading, fertilizing, planting, care after planting, weed and pest control, and remaking and renovating old lawns. See page 95.

½ lb., 20c; 1 lb., 35c; 3 lbs., \$1.00; 5 lbs., \$1.50; 10 lbs., \$2.75; 20 lbs., \$5.00



Grass Seeds Prescribed for All Soils and Purposes

For Lawns, Shaded Lawns, Golf Courses, Airports and Landing Fields, Bowling Greens, Football, Baseball and Polo Fields.

We supply in this vicinity nearly all of the cemeteries, public parks, golf courses and other places where considerable quantities of grass seed are used and are prepared at all times to furnish the highest quality seeds for all purposes.

We put up special mixtures for all purposes and will be very glad to estimate on any special mixture that may be required.

We offer the following splendid mixtures which can be relied on to be the very highest quality.

"Shady Nook" Lawn Seed

For sowing on the north side of buildings, between houses, and for securing lawn under large shade trees. In many lawns there are places where it seems as though nothing can be grown; some are shaded by large trees and others by buildings. For these locations we recommend our **Shady Nook Lawn Seed**. It is always advisable for those who are seeding down the shady places to turn new soil, if possible, especially if large trees are producing the shade, as their roots spread so fast as to exhaust the nourishment in the soil. When unable to supply new soil, the ground should be well dug over, and if the tree roots predominate, these should be taken out. In most shady places the soil has a tendency to be sour, and we strongly recommend the use of lawn lime (about 50 lbs. per 1000 sq. ft.). Per $\frac{1}{2}$ lb., 25c; 1 lb., 40c; 5 lbs., \$1.85; 10 lbs., \$3.50; 20 lbs., \$6.50.

"Bent Lawn" Grass Mixture

This is composed of *Agrostis* varieties only, a mixture of the wonderful Bent Grasses with a proportion of high quality Red Top. In rich soil it will produce a turf much finer in texture than a lawn of the ordinary type, and the creeping character of these grasses causes them to mat together and produce the soft, luxuriant feel of an expensive rug. The turf is a deep, rich green color. For this mixture the soil should be exceptionally good and should have additional rotted manure worked into it.

Several times during the growing season, Wedo, the special fertilizer for lawns only, should be applied to the turf at the rate of $1\frac{1}{2}$ lbs. per 100 sq. ft.. Sow the seed at the rate of 1 lb. per 250 sq. ft. This is particularly heavy seed, one bushel weighing 30 pounds. Per lb., 65c; 5 lbs., \$3.10; 10 lbs., \$6.00; 20 lbs., \$11.00; 100 lbs., \$50.00.

Hillside or Terrace Lawn Seed

For high, dry situations where moisture and poor soil are conditions to be contended with. It is composed of grasses that will succeed fairly well under these conditions and produce short green turf of fair quality. Per $\frac{1}{2}$ lb., 20c; 1 lb., 35c; 3 lbs., \$1.00; 5 lbs., \$1.50; 10 lbs., \$2.75; 20 lbs., \$5.00.

Golf Course Mixtures

It is most important that the best seeds be used and in proper proportions to produce desired results. New golf courses require somewhat different mixtures than old courses, because it is imperative that quick sod should be obtained and one which will be lasting and produce good, green, smooth turf. From our long experience with grasses, we are well informed on the requirements for the average golf course whether it be for greens or fairways and will be glad to figure with you. The fact that we are among the largest importers of grass seeds and one of the largest cleaners of domestic sorts, enables us to offer at very reasonable figures.

Quality and Service for 67 Years



J&MC BUILDING—SEED CLEANING PLANT—EGGLESTON AVE., THIRD & FOURTH STS.
OFFICE: 720-728 EAST THIRD ST NEAR PENN'A STATION



The use of our seeds has steadily increased because of quality. No one can tell the difference by inspection between good and bad seeds. The planter must have confidence in his seedsman. Our seeds are held at a very high standard to merit this confidence. For sixty-seven years we have been growing, periodically moving into larger quarters.

Our location in the heart of the seed producing areas, combined with unlimited buying facilities, enables us to give first class quality at a reasonable price. All of our seeds are the result of scientific research. We clean practically every lot of seed we sell, on our own modern seed cleaning machinery. We maintain one of the finest equipped seed testing laboratories to be found anywhere, for your benefit.

Our Retail Garden Store

In creating our retail garden store, we desire to make a real shopping center for everything which has to do with gardens and their furnishings. Necessary and desirable articles have been added to give year round practical interest to the store and help you to make your garden your home, in the pleasant months of the year and to make your home your garden throughout the winter.



Garden Seed Department—228-230-232 East Fourth Street.
Phone PArkway 2600.

Whether you call at our store for your seeds and garden supplies or order them by phone or mail, we can assure you of the same prompt and courteous attention and the same helpful interest in your garden success.

Buyers of Seeds will find it worth while to devote some of their time to this catalog. In it you will find reliable information as to varieties of seeds, bulbs, plants, etc. We hope it will be of use to all who are interested in making their vegetable gardens profitable and flower beds and lawns more attractive.

VEGETABLES

With the improvement in conditions that is now noticeable, 1934 will be distinctly a "garden year." The home garden, started by many as an economic measure, will be continued even when the necessity is lessened, for the **QUALITY** of **FRESH VEGETABLES** from **YOUR OWN GARDEN** can never be equalled from any other source.

Asparagus

One ounce of seed sows 50 ft. producing about 500 plants; 10 lbs. sow an acre. One pound produces plants enough to set one acre.

Roots can be set from February to May, or in the fall, in October or November.

100 roots plant a bed 100 feet long and are sufficient for a medium garden. An acre requires 4000 to 7000 roots.

CULTURE GROWING ROOTS. Asparagus seed is sown in March or April one inch deep, in rows 15 inches apart. Keep clean with hand tools and thin out the plants to four inches apart. When one or two years old, set in permanent beds.

GROWING ASPARAGUS. The size of Asparagus depends more on high fertilization than on the variety. Well-drained, rich soil, where it will not be in the way when the rest of the garden is plowed is best. Two year old roots give quickest results. Plow or dig out a trench 18 inches wide, six to ten inches deep, making the trenches six to eight feet apart. In the bottom of the furrow use four to six inches of well-rotted manure, then cover with two or three inches of good soil. The roots are set twelve to fif-

teen inches apart, and should be spread out carefully and afterwards covered with about two inches of soil. Do not cover with too much soil the first year, but the following years they can be hilled up. If white Asparagus is wanted the beds should be thrown higher than if wanted for green Asparagus.

Do not cut Asparagus too late in the spring, as it exhausts the plant. The most practical growers on the day they stop cutting, throw down the beds with a plow, then harrow the ground, leaving the plants to grow. In November the tops are cut off and a mulch of manure put on the top of the rows, which is afterwards worked into the soil, when the beds are thrown up in the spring.

For a small garden Asparagus roots can be set in double rows instead of single.

- 1 WASHINGTON.** This variety has proven a nearly rust-proof as is possible to produce Asparagus. It is much in demand on account of its heavy yield and fine flavor. The stalks are rich, dark green color, tinted darker at tips.
Pkt., 5c; oz., 20c; ¼ lb., 60c.

Beans—Dwarf or Bush

Sometimes called String Beans, Snap Beans, etc.

Always popular and easily grown. If planted every two or three weeks, commencing after all danger of frost has passed and continuing until about August 15, a supply will be kept up during the whole summer.

One pound plants about 100 feet. An acre requires 1 to 1½ bushels. Half pound planted every 3 weeks is sufficient for a medium garden. They are ready for table from 40 to 50 days after planting.



Tendergreen Dwarf Beans.

Culture. To produce the best results, Beans should have a good soil and deep or thorough tillage before planting and shallow cultivation afterwards to prevent too much disturbing of the roots. Land which was planted in other crops is better than that freshly manured and sheep manure, one or two hundred pounds per acre will give excellent results. For field culture plant in rows 2½ feet apart, dropping the Beans 3 or 4 inches apart in the rows, covering about 2 inches with soil. In small gardens, rows may be 18 inches apart. Up to the time of blooming, cultivate often, but never while the vines are wet, and do not disturb the roots, especially after blooming, as they will blight and the crop will be reduced. Constant picking extends bearing.

Insect Remedies—For Mexican Bean Beetle, dust the under side of leaves with Magnesium Arsenate Dust Mixture. (See page 79).

For fungous diseases and rust, spray with Bordeaux Mixture.

Green Podded Varieties

- 3 TENDERGREEN.** One of the very best of the round, green-podded Beans. Fleshy pods about 6 inches long, strictly stringless and of fine quality. Very productive and closely resembles an improved Full Measure Bean.
Pkt., 10c; ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.
- 4 IMPROVED EARLIEST RED VALENTINE.** A well-known very early sort. Pods of medium length, about 4½ inches long, of medium green color, curved, cylindrical, with crease in the back, very fleshy, crisp and tender. Vines medium to large.
Pkt., 10c; ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.
- 5 STRINGLESS GREEN POD.** A very handsome, long, cylindrical, medium maturing green Bean. Pods larger than those of Valentine and straighter. Very fleshy and remain crisp and tender longer. Vines of vigorous growth and productiveness. A very desirable sort for home gardens and largely grown for market.
Pkt., 10c; ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.

Grow better vegetables with
SACCO PLANT FOOD

The Home Vegetable Garden, by E. M. Freeman—a book which shows how to grow fresh, crisp vegetables in your own garden and cut down on the grocer's bills. Full of practical details for laying out the garden, planting and growing vegetables successfully. 8 illustrations, 214 pages. Price \$1.75.

BEANS, DWARF OR BUSH—Continued

6 GIANT STRINGLESS GREEN POD. A highly productive and very handsome sort. Vines vigorous, spreading. Pods large, round, averaging larger and straighter than the Stringless Green Pod, but a few days later.

Pkt., 10c; ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.

7 DWARF HORTICULTURAL. Very popular in most localities, especially for market, as they are valuable both for snap Beans and shelling. They become fit for use as shelled Beans early, and in this condition the Beans are large, easily shelled and equal to Lima Beans in quality. The vines are very productive, compact and upright in growth, with large leaves. The pods are 5 to 5½ in. long, broad, thick, curved and have splashes of bright red on yellowish green.

Pkt., 10c; ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.

8 FULL MEASURE (Perfection Stringless). A very desirable round-podded variety with pods 6 to 7 inches long, which are solid, meaty, brittle and stringless. It is a little later than Stringless Green Pod and is a splendid Bean for home or market use.

Pkt., 10c; ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.

9 REFUGEE (late or 1000 to 1). One of the best sorts for late planting and especially desirable for canning and pickling. The vines are large, spreading, very hardy, with small, smooth light green leaves. The Beans are borne in great profusion, pods being about 5 to 5¼ inches long; cylindrical, slightly curved, medium green, afterwards becoming light yellow, slightly splashed with purple.

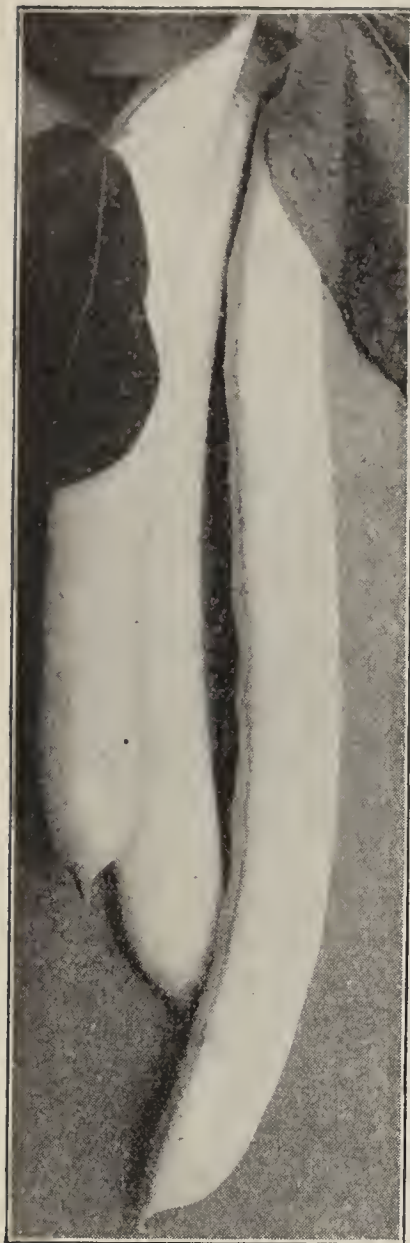
Pkt., 10c; ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.

10 BOUNTIFUL. An improved long Yellow Six Weeks, in that it is earlier, very much larger and more tender. It is very hardy, extremely early, very prolific, and bears continuously for several weeks. Pods are flat, absolutely stringless, rich green, very large and handsome. For very early or very late planting it is very desirable for both home garden and market.

Pkt., 10c; ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.

12 TENNESSEE GREEN POD. A dwarf, early snap Bean, very hardy and more capable of withstanding inclement weather than most other sorts. The vines are large, somewhat spreading, prolific. The pods are very long (often 6 to 7 inches) flat, irregular in shape, of dark and vivid green color.

Pkt., 10c; ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.



Dwarf Golden Wax Beans.



Giant Stringless Green Pod Beans.

Dwarf Beans - For Shelling Only

Usually profitable as a farm crop, especially in northern sections.

Culture. Plant in rows about 2½ feet apart. The Navy requires about ½ bushel per acre. Other sorts about a bushel.

15 DWARF WHITE NAVY. The well-known small oval white variety so largely used in all sections.

½ lb., 10c; 1 lb., 15c; 2 lbs., 25c; 5 lbs., 60c.

16 DWARF WHITE MARROW. Beans oval, about double as large as Navy. Vines vigorous and productive.

½ lb., 15c; 1 lb., 20c; 2 lbs., 35c; 5 lbs., 80c.

17 DWARF WHITE KIDNEY. Large, white kidney-shaped, slightly flattened. Pods about six inches long, large and coarse. Beans excellent quality either green or dry.

½ lb., 15c; 1 lb., 20c; 2 lbs., 35c; 5 lbs., 80c.

18 DWARF RED KIDNEY. Similar to above, but dark pink color. Very salable.

½ lb., 15c; 1 lb., 20c; 2 lbs., 35c; 5 lbs., 80c.

Wax Podded Varieties

These find ready sale in northern markets and are largely planted by southern growers for shipping. The pods vary from light to golden yellow color.

19 ROUND POD KIDNEY WAX. Long, round, handsome, stringless pods of large size, very solid and full of meat, crisp, brittle, and free from rust. Earliest and best Wax Bean.

Pkt., 10c; ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.

INOCULATION FOR BEANS. Excellent results will be obtained by treating the seeds of Beans with Inoculation Bacteria before planting. It can easily be done. We have it put up in convenient size for small gardens. See page 65.

20 WARDWELL'S KIDNEY WAX. A variety which matures a little later than the Golden Wax, yields large crops of long, nearly straight, broad pods of light golden yellow color. They are extremely showy, consequently are ready sale and most profitable for market gardeners and an excellent variety for growing in home gardens.

Pkt., 10c; ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.

21 PENCIL POD BLACK WAX. One of the most popular varieties for home use and market. The pods are about 4½ inches long, slightly curved, round, very brittle and tender. They are very fleshy, clear golden yellow color and remain tender a long time.

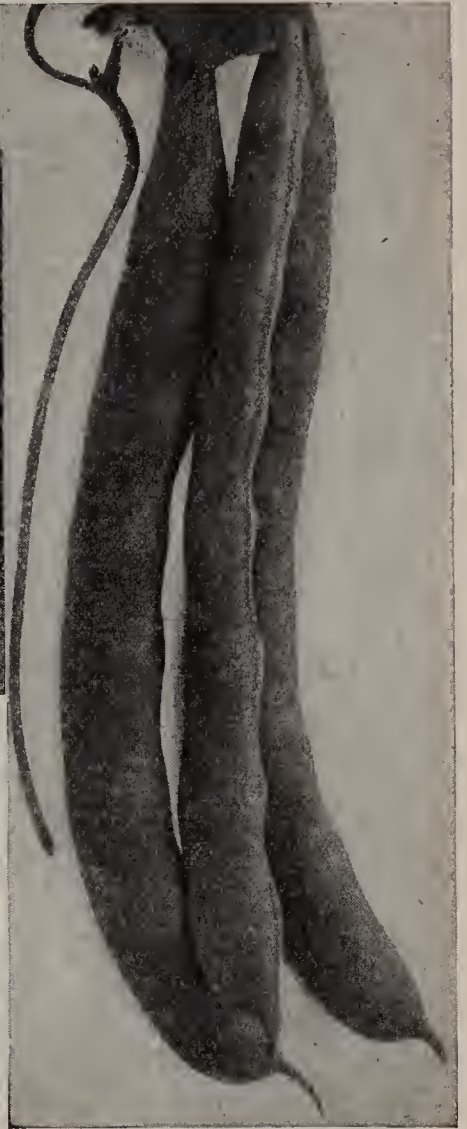
Pkt., 10c; ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.

22 CURRIE'S RUST-PROOF WAX. A variety which is claimed to be rust-proof. The vines are very vigorous, hardy, productive. Pods, light yellow, similar in shape to Golden Wax, 5½ to 6 inches long. Matures early and is a splendid sort for market gardens and excellent for home use.

Pkt., 10c; ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.

23 DWARF GOLDEN WAX. An early maturing variety, very productive. Vines erect, compact, bearing pods well off the ground. Pods nearly straight, broad, flat, golden yellow, very fleshy and wax like, usually 4½ to 5 inches long. A good sort for home garden, either for table use or pickling.

Pkt., 10c; ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.



Improved Kentucky
Wonder Pole Beans.

BEANS—Pole or Cornfield

These are very profitable and usually command good prices on the markets and are more easily and economically gathered than the Dwarf Beans. Can be planted to run up good, strong poles and some varieties are desirable to use on strong growing corn.

Culture—Pole beans are more sensitive to cold and wet than Dwarf varieties, hence should not be planted too early. Use poles from 6 to 8 feet long in rows 4 feet apart, placing the poles about 3 feet apart in the row. If the poles are slanted slightly to the north, the vines climb better and the pods are more easily seen. In home gardens three poles are usually placed wigwam style and tied at the top. Around each pole plant 4 to 6 beans from 1 to 2 inches deep. When ready to run, thin to four plants and see that they all climb the same way, as if trained wrong they will not climb. If to be planted in corn, this should be done after the corn is well started and has had two or three workings. An acre requires about 15 pounds or seed.

26 IMPROVED KENTUCKY WONDER (or Old Homestead). A well-known variety and one of the most popular of all Pole Beans, especially in the middle sections. The vines are very vigorous, heavy and very prolific, hence not desirable for planting in corn. Pods are of irregular shape, bright green, very long, often reaching 9 to 10 inches. They are very tender, crisp and stringless when young, but become irregular and spongy as the beans ripen. Pkt., 10c; ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.

27 WHITE SEEDED KENTUCKY WONDER. (St. Louis Perfection White). Similar to the above, excepting that the beans are different shape and solid white. It is early maturing, very desirable for snap beans and an excellent variety for green shelling and unsurpassed in quality as baked beans. Very profitable for market gardeners and highly praised in all sections. Pkt., 10c; ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.

28 MISSOURI WONDER. An extremely prolific variety, maturing in the same season or a little later than Improved Kentucky Wonder. A green podded variety of high quality. The pods are nearly as long as those of Improved Kentucky Wonder, but slightly broader and flatter and lighter in color. When in condition for snap beans, the pods are nearly stringless. Pkt., 10c; ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.

29 RED SPECKLED CUT-SHORT OR CORN HILL. A very popular variety, especially for planting among corn. It will give a good crop without the use of poles. The vines are not as heavy as Kentucky Wonder, being medium size, vigorous, twining loosely, with dark colored leaves. Pods are 3 to 3½ inches long, straight, flat, fleshy and of good quality. As they mature the pods become light yellow tinged with red, the beans showing distinctly through the pods. Pkt., 10c; ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.

30 HORTICULTURAL POLE or SPECKLED CRANBERRY. A very popular variety for general purposes, either as a late green shelled bean or for snaps. The pods are of medium length 4½ to 5 inches long, broad; when young pale green, gradually changing to yellowish green striped or splashed with red. Vines are moderately vigorous, with large light colored leaves. Can be grown on corn or on short poles. As shelled beans they equal in flavor Limas and are excellent to use as dry beans for boiling or baking. Pkt., 10c; ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.

31 WHITE CREASEBACK. An extremely early variety, which produces nearly all its pods at the same time. The vines are medium size and vigorous, and in rich soil wonderfully productive, bearing round, fleshy pods in clusters of from 4 to 12, which makes it extremely easy to gather. Pods are about 5 inches long, comparatively straight, attractive, light green, very fleshy, with a crease down the center. Pkt., 10c; ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.

32 SCOTIA or STRIPED CREASEBACK. A hardy and very productive green-podded cornfield bean. The vines are sturdy and of good climbing habit with small-medium deep green leaves. The pods are long, about 6 inches, very cylindrical or completely rounded, distinctly creasebacked, very fleshy and of excellent quality. The color, when in condition for use as snaps, is light, silvery green, becoming tinged with purple as the pods mature. This variety is especially suitable for growing in corn for snaps. Pkt., 10c; ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.

33 TENNESSEE WONDER, or EGG HARBOR. Large green pods, curved, double barreled, tinged with purple and wrinkled, depressed between each of the eight or nine seeds. Considered one of the largest of all cultivated beans. Pkt., 10c; ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.

BEANS, POLE OR CORNFIELD—Continued

- 34 LAZY WIFE.** A somewhat late maturing variety, bearing medium green pods in large clusters. Pods are $5\frac{1}{2}$ to $6\frac{1}{2}$ inches long, broad, thick, fleshy and entirely stringless. When young they have a rich flavor which is retained until they are nearly ripe. An excellent sort for either snap green, shelling, or using as dry beans.
Pkt., 10c; $\frac{1}{2}$ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.
- 35 McCASLAN.** The pods, produced in great abundance, are a rich, dark green color, measuring about 10 inches long, rather flat and slightly curved. Fine for use as a snap sort, being entirely stringless when young. If pods are picked before maturing, vines bear till frost. If pods are allowed to mature, they produce a good sized white bean for winter use.
Pkt., 10c; $\frac{1}{2}$ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.
- 36 OHIO WAX POLE.** Pods usually 7 inches long, solidly meaty and entirely stringless; commences to bear when scarcely higher than bush variety, and keeps on producing until killed by frost.
Pkt., 10c; $\frac{1}{2}$ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., \$1.25.
- 37 GOLDEN CLUSTER WAX.** One of the best wax podded pole snap beans. The vines are large, strong growing, vigorous and hardy. Pods 6 to 8 inches long, borne in clusters and vary in color from golden yellow to creamy white.
Pkt., 10c; $\frac{1}{2}$ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., \$1.25.

Pole Lima Beans

Large seeded sorts require 2 pounds to 100 poles, $\frac{3}{4}$ bushels to an acre. Small Limas require about one-third the quantity.

Culture—These are to be treated like other Pole Beans excepting they should be planted one or two weeks later. Where soil is very stiff, it is best to plant the beans with the eye downward, as they will come up more rapidly.

- 42 FORD'S MAMMOTH PODDED.** The result of 20 years' selection by a market gardener near Philadelphia. It far surpasses in size and productiveness many other sorts and has become very popular throughout all sections. Pods are very large, usually containing 4 to 6 beans. Vines vigorous, setting the Beans early and very productive.
Pkt., 10c; $\frac{1}{2}$ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., \$1.25.
- 43 KING OF THE GARDEN.** A favorite sort on account of its large size and abundant yield. The Beans are of greenish color, very tender and delicious.
Pkt., 10c; $\frac{1}{2}$ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., \$1.25.
- 44 EXTRA LARGE WHITE POLE LIMA.** A choice variety of the Large Lima. Pods and Beans of large size and a good cropper. Quality unsurpassed.
Pkt., 10c; $\frac{1}{2}$ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., \$1.25.
- 45 SMALL LIMA OR SIEVA.** Also called Butter or Carolina. Not as large as the other varieties but a good bearer and about 10 days earlier.
Pkt., 10c; $\frac{1}{2}$ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., \$1.25.

Dwarf or Bush Limas

These are preferred in small gardens, as they can be grown like Dwarf Beans, and without the use of poles. They are not quite so prolific as the Pole Limas, but are earlier and continuous bearers throughout the season. The beans can be gathered much easier than the Pole Limas and they can be grown closer together.

Culture—All Lima Beans are tender and the ground should be dry and the weather warm and settled before planting. They do best in good light soil, and if not rich, an application of sheep manure or other good fertilizer will be well repaid. Plant in drills, $1\frac{1}{2}$ to 2 feet apart, dropping the beans 4 to 5 inches apart and covering about 2 inches deep. Cultivate often until they commence to flower, but only when the leaves are dry.

1 pound of Small Seeded Lima plants 100 to 125 feet and is sufficient for an ordinary garden. 2 pounds of other sorts plant about the same space. For succession, make two plantings four weeks apart. Mature in 75 to 90 days from planting.

- 38 BURFEE'S IMPROVED BUSH LIMA.** Pods and beans are both larger and thicker than Burpee's Bush Lima, and fully eight days earlier. Plant is a vigorous grower with heavy foliage. Even when of full size the enormous beans are of the most luscious flavor.
Pkt., 10c; $\frac{1}{2}$ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., \$1.25.
- 39 FORDHOOK BUSH LIMA.** A very vigorous and erect growing variety, bearing its pods well above the ground in large clusters. Pods are medium green, about 5 inches long and contain 4 to 5 large thick beans of exceptionally fine quality. We consider this one of the best of the large seeded kinds.
Pkt., 10c; $\frac{1}{2}$ lb., 25c; 1 lb., 45c; 2 lbs., 80c; 5 lbs., \$1.75.
- 40 BURPEE'S BUSH LIMA.** A bush form of the Large White Lima type. Plants are somewhat dwarf but very productive. Pods are medium green, broad, containing 3 to 4 very large flat beans of the best quality. Seed large, flat, white, with slightly greenish tinge.
Pkt., 10c; $\frac{1}{2}$ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., \$1.25.
- 41 HENDERSON'S BUSH LIMA.** An exceedingly productive variety of dwarf habit. Commences bearing very early and continues to grow and set pods until stopped by frost. The vines are without runners, somewhat dwarf, very productive. Beans small, white and most excellent quality either for green shelling or as dry beans.
Pkt., 10c; $\frac{1}{2}$ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.



Ford's
Mammoth
Podded Pole
Lima.



Burpee's
Bush Lima.

Beets

Table Varieties

These are popular in all gardens and as a rule a very profitable crop for market gardeners. Beets fresh from the garden are always more tender and delicious than those that are shipped. They can be sown in succession for different seasons and if too many are produced for table use, make excellent food for poultry and stock.

Culture—A deep loamy or sandy soil is best suited to Beets. If wanted very early they can be sown in hotbeds and transplanted in the open ground when the weather has moderated, but the outer leaves should be trimmed off when transplanting is done. The earliest outdoor sowing is done in March or April, in rows 15 to 18 inches apart, thinning or transplanting the plants to 3 or 4 inches apart in the rows. For winter use, sow in June or July. Roots can be stored in pits or cellars covering with sand to keep from wilting.

One ounce sows 100 feet of drill. 7 lbs. one acre. Ready for use 60 to 75 days after sowing.

46 CROSBY'S IMPROVED EGYPTIAN. An improved sort which is very popular with the market gardeners on account of its quick growth, extreme earliness, and general good qualities. The tops are small, roots flattened but slightly globe shaped and very smooth. Exterior bright red and inside deep vermilion-red zoned with a lighter shade. It is one of the very best, sweet and tender varieties, of excellent quality and popular both with the market gardener and for home use. It becomes fit for use earlier than any other variety and is much superior to some of the older sorts.

Pkt., 5c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.25.

47 DETROIT DARK RED. Very early and becoming very popular. Produces medium size globe-shaped roots which are very smooth and of dark blood red color. Very desirable for bunching. Comparison with other varieties proves that **Detroit Dark Red** is the most uniform Beet in size and most attractive in color. It is splendid for market or home gardens on account of its uniform deep red color and most desirable for canning.

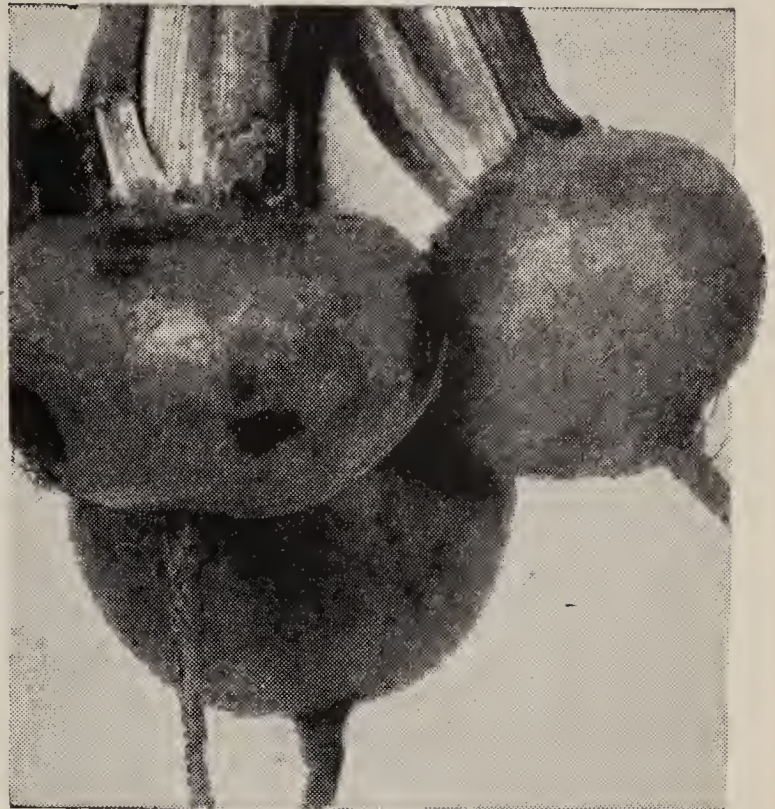
Pkt., 5c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.25.

48 EARLY ECLIPSE. This has long been a popular variety for home gardens and market growing. The tops are small, roots bright deep red, smooth, round or slightly top-shaped with a very small tap root. It is splendid for bunching; is very sweet, crisp and tender, especially when young.

Pkt., 5c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.00.



Detroit
Dark Red
Beets.



Crosby's Improved Egyptian Beets.

49 NORWOOD BLOOD TURNIP. A superb early main crop Beet, both for market and the home garden. The roots are of neat turnip shape, growing three or four inches in diameter, smooth, and entirely free from small rootlets. Flesh deep blood-red, tender, and of rich flavor. Foliage is small, of a rich bronze color.

Pkt., 5c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.00.

50 EXTRA EARLY EGYPTIAN. An old well-known popular variety which has long been a favorite with market gardeners. It is the earliest sort and largely used for forcing. Has very small tops and produces flat, medium size roots which are very dark red, moderately thick and distinctly flat on the bottom. Flesh is dark, purplish red, firm, crisp, and tender.

Pkt., 5c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.25.

52 EDMAND'S EARLY BLOOD TURNIP. A dark red, nearly round variety which is slightly flattened. Exterior, dark red; interior, purplish red with a little zoning. Crisp, tender, sweet, and one of the best for main crop, being an excellent keeper.

Pkt., 5c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.00.

53 IMPROVED EARLY BLOOD TURNIP. A selected stock of this old and very popular variety. It is of deep red color, zoned with lighter shade; roots round, slightly flattened and excellent for summer and autumn use.

Pkt., 5c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.00.

54 DEWING'S BLOOD TURNIP. A medium early sort which is very tender and sweet and a good keeper. Roots are dark purplish red, turnip shape with a medium size tap.

Pkt., 5c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.00.

55 LONG SMOOTH BLOOD. A splendid late variety producing large, smooth, rather slender roots which grow largely under ground. It has few side roots and is good shape and color, exterior being dark purple, almost black, with delicate red flesh which is tender and sweet. It is an excellent sort for main crop or pickles. Produces very good crops so that it is a profitable grower for stock feeding.

Pkt., 5c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.00.

56 SWISS CHARD. This variety is grown for its tops only which are boiled like spinach. It does not make edible roots but produces white leaves; the stalks should be cooked and served like asparagus. Makes a splendid summer vegetable and is becoming popular. Known also as the Silver or Spinach Beet.

Pkt., 5c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.00.

Beets for Stock Feeding

Too little attention is paid to this important crop for winter feed for stock. They yield enormously, sometimes making fifteen tons to the acre; are very nutritious, not only improving the general condition of stock but greatly increase both the quantity and quality of milk in cows. A variety of feed is always beneficial to all animals and the Mangel-Wurzel and Sugar Beets afford one of the best crops for this purpose, as they are superior in feeding qualities to turnips and are a much larger yielding crop. All farmers and especially stock raisers should grow them extensively.

Culture—Sow in the latter part of April, May, or June at the rate of 6 lbs. to the acre, in rows $2\frac{1}{2}$ to 3 feet apart and thin to 8 inches apart. If seed is soaked 24 hours before sowing, it germinates more quickly but it should be put in when the ground is moist. The crop is harvested before frost and packed away in barns or cellars. They can also be put into piles or ridges 5 to 6 feet high and covered with straw or litter to keep from freezing too much. When the winter weather comes, throw on a layer of 4 to 6 inches of earth. A protection of boards to shed the heavy rains is also desirable.

57 MAMMOTH PRIZE RED MANGEL. Particularly suited to deep soils but succeeds on any medium or heavy soil. The roots are very large, uniform, and are enormously productive. Flesh is white, tinged with red. One of the best for general purposes. Oz., 10c; $\frac{1}{4}$ lb., 20c; 1 lb., 60c.

58 GOLDEN TANKARD MANGEL. A variety which produces very large roots, oval shaped, the bottom being larger than the top. It is light grey above the ground; deep orange-yellow below, flesh yellow zoned with white. A splendid sort for shallow soil and produces enormously on rich ground. Oz. 10c; $\frac{1}{4}$ lb., 20c; 1 lb., 60c.

59 LANE'S IMPERIAL SUGAR. A very popular variety for stock and one which will succeed well in this latitude. The roots grow to a large size and it is more like a Mangel-Wurzel in character but the flesh is sweeter and more tender, being finer grained. Especially valuable for poultry. Oz. 10c; $\frac{1}{4}$ lb., 20c; 1 lb., 60c.

Broccoli

60 ITALIAN GREEN SPROUTING. A distinct variety extensively cultivated by Italian gardeners. Plant forms a large, solid head which remains green. When the central head is cut, numerous sprouts develop from the leaf axils, each sprout terminating in small, green heads, which are bunched for market. Pkt., 10; oz., 40c.



HOTKAPS

for

BIGGER,

EARLIER CROPS!

Only \$10.00 Per 1000

See Page 90 for Details

Brussels Sprouts

A vegetable of the cabbage family which is largely used in the fall. It produces stalks about 2 feet high, which are covered with small heads resembling miniature cabbage. These are cooked and served like cabbage and are very tender and delicious.

Culture. Same as for late cabbage, but plants are set closer together.

61 PERFECTION. A semi-dwarf variety and one of the best. Pkt., 5c; oz., 25c.



Perfection
Brussels Sprouts.

Cabbage • Finest American Stocks

Culture—For earliest plants the seed is sown in hotbeds from January to March. To make the best plants, sow early and transplant to cold frames. Then at the end of March or the first of April transplant to the garden. One ounce makes about fifteen hundred good plants. Six ounces make plants enough for one acre. For summer use, sow in the open ground in April and for late use, sow in May or June. There is no crop that repays so well, heavy fertilization and constant cultivation. When plants are planted in the field, apply sheep manure either in drills or around the plant, mixing with the soil.

To raise the best crops of Cabbage, it is of the utmost importance that select seed stock be used. The varieties we list are saved from the very best stocks and will give excellent satisfaction. We particularly call attention to Copenhagen Market and Premium Late Flat Dutch, as being the leading sorts of the types. All home gardens should plant some Savoy Cabbage, as it is so much more delicious in flavor than the ordinary sorts. 1 oz., for 2,500 plants.



Golden Acre Cabbage.

First Early Sorts

64 GOLDEN ACRE. This is a new, early, round-headed Cabbage which closely resembles Copenhagen Market in type. As its name implies, it is a money-maker. It is 8 to 10 days earlier than Copenhagen Market but is smaller and can be planted closer. Because of its earliness and fine quality it commands a higher price than any round-headed Cabbage.

Pkt., 5c; oz., 30c; $\frac{1}{4}$ lb., \$1.00.

65 EARLY JERSEY WAKEFIELD. One of the earliest and by far the surest heading of first early Cabbages. Most gardeners depend upon it entirely for their extra early crop. It is exceedingly hardy, resists cold and unfavorable conditions and is the most likely to yield satisfactory results. Plants are compact, with erect conical heads and few outer leaves. Stems short; heads of medium size, very solid and of excellent quality.

Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 60c.

66 EARLY WINNINGSTADT. One of the best conical or sharp heading sorts which is compact and of excellent quality. Quick maturing. It is the hardiest, not only as regards frost but will suffer less from excessive wet, drought, insects, or disease than any other sort of its class.

Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 60c.

CABBAGE—Continued

FIRST EARLY SORTS—Continued.

68 COPENHAGEN MARKET. The earliest round-head or flat Cabbage yet introduced. The heads are exceptionally large and it has a very short stem and few outer leaves—a most excellent sort for home gardens and market gardeners. On account of extreme earliness, it is destined to become one of the leading sorts grown, as a flat Cabbage fills barrels or crates faster than sharp head Cabbage and will yield the grower more returns. We predict for Copenhagen Market an extensive cultivation. Our stock is from one of the best Denmark growers.
Pkt., 5c; oz., 25c; ¼ lb., 75c.

Yellows-Resistant Cabbage Seed

Both varieties listed below are the result of special breeding against Yellows or Wilt Disease, an infection frequently attributed to hot or dry weather. Our stock seed is selected rigidly and continuously for type and resistance. We offer only first generation seed from such stock.

62 MARION MARKET. Highly resistant to yellows, round head, short stem, will permit close planting. Earliest of all yellows-resistant varieties selected from Copenhagen Market.
Pkt., 10c; oz., 45c; ¼ lb., \$1.35.

63 YELLOWS-RESISTANT HOLLANDER. This is a strain of Hollander or Danish Ballhead. A heavy yielding, round head, late type.
Pkt., 10c; oz., 40c; ¼ lb., \$1.25.

Late Varieties

77 PREMIUM LATE FLAT DUTCH. A very superior strain of this well-known, popular Cabbage which is exceptionally reliable for main crop planting. It is short stemmed; has rather large early leaves, very showy heads and produces uniformly large, flat, deep, solid heads of splendid quality. It is an excellent keeper and can be relied upon as thoroughly satisfactory.
Pkt., 5c; oz., 20c; ¼ lb., 60c.

78 LARGE LATE DRUMHEAD. One of the oldest and most popular of late sorts, producing large, rounded heads. It has been grown for many years and ours is an improved stock. The heads are somewhat more globe-shaped than the Late Flat Dutch. Leaves large, loose, spreading. An excellent keeper.
Pkt., 5c; oz., 20c; ¼ lb., 60c.

79 DANISH BALLHEAD OR HOLLANDER. A variety which though introduced but a comparatively short time has become one of the standard sorts in the Cabbage growing districts in the North. It produces very large, solid heads, which are globular in shape, has few but rather large, thick, bluish green leaves. Heads are borne on short stems, are of medium size, round, very solid and stand shipment better than any other late sort. It is one of the very best keepers and is much desired for kraut. Our stock is Denmark grown and very select.

Pkt., 5c; oz., 25c; ¼ lb. 75c.

Celery Cabbage

83 CHIHLI. Earliest and most sure-heading of the Chinese varieties. Plant of upright growth, producing long, solid, white cylindrical heads, two feet in length. Leaves very broad, smooth, fringed on edge, with broad, white mid-rib; excellent quality.
Pkt., 5c; oz., 30c; ¼ lb., 85c.

We can supply nearby customers with early and late Cabbage plants which we grow on our farms. We do not send these plants by mail.

Second Early Varieties

72 ALL SEASONS. One of the largest and a thoroughly satisfactory second early sort. Plants are vigorous, sure heading; leaves large and smooth. This is a first class sort both for early and late planting and is especially adapted for kraut. It is well adapted to stand the hot sun and adverse conditions.

Pkt., 5c; oz., 20c; ¼ lb., 60c.

73 EARLY DWARF FLAT DUTCH. A variety which has long been popular among growers, both for home use and markets. The heads are borne on short stems and are very large, solid, and nearly flat on top. Practically every plant will form a good, solid head which will mature earlier than Late Flat Dutch.

Pkt., 5c; oz., 20c; ¼ lb., 60c.

74 EARLY SUMMER. An excellent second early Cabbage, which is a vigorous, strong grower, producing moderately large heads. It has rather spreading outer leaves, which are somewhat frilled and the stem rather short. The heads are round, solid and a trifle earlier than other summer sorts, and in addition will stand longer without bursting than most others.

Pkt., 5c; oz., 20c; ¼ lb., 60c.

75 ALLHEAD EARLY. As early as most of the early summer Cabbages; the deep, flat heads are extremely solid and uniform in color, shape, and size. Splendid for kraut making.

Pkt., 5c; oz., 20c; ¼ lb., 60c.

81 AMERICAN PERFECTION DRUMHEAD SAVOY. Too little attention is paid to the Savoy Cabbage in this locality, as for home gardens it is unquestionably the most desired of all Cabbages. It is used almost entirely for late planting and attains its greatest perfection in flavor after frost, when it becomes as tender and even more delicious than cauliflower. The heads are of medium size, borne on short stems, and not as large as the ordinary late Cabbage, hence will stand closer planting. Our stock of this is American grown and will produce uniformly large heads for this variety. We strongly recommend it to be more extensively grown both for home use and market.

Pkt., 5c; oz., 25c; ¼ lb., 75c.

82 RED MAMMOTH. A variety used mainly for pickles and sauerkraut. It is highly esteemed.

Pkt., 5c; oz., 25c; ¼ lb., 75c.



Chihli Celery Cabbage.



Premium Late Flat Dutch.

Carrot FINE FRENCH STOCKS

An easily grown, useful and most healthful vegetable which should come into more extensive use. In Europe they are extremely popular, and as they add flavor to soups and meats, besides being healthful, delicious and to an extent ornamental, should be more largely used. In addition to their table uses, they make excellent pickles, and any that are left over are nutritious food for all kinds of stock and poultry.

Culture—Carrots do best in rich, light loamy soil, and where the soil is shallow or stiff, select the short growing varieties, rather than the longest rooted sorts. For early crop sow in March; for main crop in April or May, in rows 18 inches apart, cultivating and weeding as soon as the plants are up. Continue in cultivation until maturity. Cover the seed half an inch deep and see that the soil is pressed firmly, thin 4 to 6 inches apart. Ounce sows 200 feet of row; 3 or 4 lbs. per acre.

88 OXHEART (or Guerande). A short, thick growing variety, especially adapted to stiff or hard soils. Roots $4\frac{1}{2}$ to 5 inches long, very thick, ending abruptly in a small tapering root. Flesh bright orange, finest quality, an excellent sort for market, home use and fine for stock feeding and poultry. **Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.**

90 CHANTENAY. A medium early variety, orange-red color, crisp and tender. Roots smooth, thick, $5\frac{1}{2}$ to 6 inches long, uniformly stump rooted but tapering slightly. One of the best in quality and productiveness for either home garden or market and especially desirable for heavy soils, because it can be harvested easily. **Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 60c.**

91 HALF-LONG DANVERS. A deep orange, tender variety, producing roots of medium length, 6 to 8 inches long,

tapering uniformly to a blunt point. They are very productive and well adapted to nearly all classes of soil for main crop planting.

Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 60c.

92 NANTES OR HALF-LONG SCARLET. A handsome variety, producing roots of medium size, slender, with small necks. Roots usually 5 to 6 inches in length, sometimes longer. A good sort for moderately early planting. **Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 60c.**

93 IMPROVED LONG ORANGE. A well-known popular sort, well adapted for loamy or deep soil, on which are produced very large crops. Roots deep orange color, usually about 12 inches long, 3 inches in diameter at the crown, tapering to a point. An excellent sort for table use, markets and particularly adapted for stock feeding. Roots tender and of good quality. **Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.**



Chantenay Carrot.

Celery

This is one of the most profitable crops for market gardeners where the acreage is small. It is popularly supposed to be a difficult crop to grow, but this is not true if ordinary preparation and care are taken. It requires rich soil, heavy manuring, plenty of water and careful attention.

Culture—For the earliest crop the seed should be sown in hotbeds from the middle of February to the end of March. For main crop sow in open ground March or April, according to the weather, in rows 15 inches apart. The seed is sometimes slow to germinate, and in dry and hot weather water well. Careful weeding by hand will have to be done until the young plants get started. Seed sown in beds should be transplanted. When the plants are set in the open field, trim the tops off and put in rows about 5 feet apart, setting plants 6 to 8 inches apart. Cultivate constantly during the growing season, and as the crop matures it must be earthed up or blanched. Sometimes this is done by placing two boards upright, close to the plants and filling in dirt both on the sides and between the plants. The stalks are handled by hand but the soil must not be allowed to get in the center. Sometimes Celery is set in beds about 4 feet wide, 6 inches between plants, and 12 inches between rows, the earth being thrown out on each side of the bed. Then as it grows it is earthed in for blanching. A new method of growing Celery, which is sometimes used, is to plant a plot completely over, setting plants about 6 inches apart. This enormous growth shades the young stalks so that they turn white but it requires exceedingly rich, heavily manured soil, deep and well drained and plenty of water for irrigation. An ounce sown in about 100 feet produces 5,000 to 8,000 plants. 4 to 6 ounces produces plants enough to set one acre, which matures in 120 to 150 days according to the kind and location.



Giant Pascal Celery.

99 IMPROVED WHITE PLUME. An extra early and very handsome sort which is very popular with market gardeners, especially for very early crop. Leaves are light, bright green at the base, shading nearly white at the tip. As plants mature, the inner stem and leaves turn white and consequently require less earthing and blanching before they are in condition to use or market. While this is very attractive and the earliest sort, its quality is not nearly so good as that of most other varieties, being somewhat stringy and not so tender. **Pkt., 5c; oz., 30c; $\frac{1}{4}$ lb., 75c.**

100 GOLDEN PLUME OR WONDERFUL. Early and very desirable for home and market garden. Plants medium sized; stocky, full hearted and compact; thick, solid stalks blanch readily and are of the finest table quality. **Pkt., 5c; oz., 40c; $\frac{1}{4}$ lb., \$1.00.**

101 GOLDEN SELF BLANCHING. This is not only a very early variety but one of the best for home use or market. It is not quite so early as White Plume but so much finer quality that it is generally preferred as a main crop sort. Plants are medium size, compact and stocky, with yellowish green foliage. As they mature, the inner stem

turns a beautiful golden yellow color and blanching is easily accomplished. Being of handsome color, very crisp, tender, free from stringiness and of fine flavor, it is the leading sort grown. **Pkt., 5c; oz., 35c; $\frac{1}{4}$ lb., \$1.25.**

102 GIANT PASCAL. A green leaf variety of the Golden Self Blanching type, from which it was developed, and one of the best for fall and early winter use. It blanches a beautiful yellowish white, is very solid and crisp and has a fine nutty flavor. Stalks of medium height, thick, solid, flattening towards the base and one of the best for main or late planting. **Pkt., 5c; oz., 25c; $\frac{1}{4}$ lb., 75c.**

103 CELERIAC OR TURNIP ROOTED CELERY. Used for its roots only, which have a fine, sweet, nutty celery taste. It is used either boiled or raw, has a delightful flavor and can be used in soups, salads or as a table vegetable. Culture about the same as for celery. **Pkt., 5c; oz., 25c; $\frac{1}{4}$ lb., 75c.**

Celery Plants supplied in season. (June, July and August). **Varieties,** White Plume, Golden Heart, and Golden Self Blanching. We do not send these plants by mail.

Cauliflower

One of the most delicious vegetables in cultivation but on account of its difficulty in growing, not so general in the average garden as it should be. Anyone, however, can be reasonably sure of success if good seed is obtained and the cultural instructions given below followed.

Culture—For early spring or summer crop sow the seed in January or February in hotbeds. When the plants have four leaves, transplant to cold frames for development. Toward the end of March or early part of April, set in open field and cultivate the same as cabbage. If the soil gets very dry, water well when possible. When the plants are set in the garden, the ground should be rich; if not so, a little sheep manure or well rotted manure should be worked into the soil before the plants are set out. The plants should be thoroughly worked during the growing season and when the heads commence to form, the leaves should be tied over the flowers to protect from the sun and make them white. For fall use sow at the same time as late cabbage and treat in the same manner. Cauliflower will not head in very hot weather—hence for fall use, too early sowing is not desirable.

$\frac{1}{4}$ ounce produces about 500 plants. Three ounces will make enough plants to set one acre.

Cauliflower plants Supplied in Season. Early Snowball and Early Dwarf Erfurt. We do not send these plants by mail.

96 EARLY SNOWBALL. Unquestionably the earliest maturing strain of short leaf type of Cauliflower. It is well adapted for forcing or winter use for early crop and is one of the most popular of all sorts, both for the market gardener and for home use. The plants are compact, leaves small, and can be adapted for close planting. Produces large size, pure white flowers, of most excellent quality. Our strain of this selected Denmark grown and can be relied on as one of the most satisfactory of all.

Pkt., 25c; oz, \$1.75.



FOR BIGGER, EARLIER CROPS USE HOTKAPS

ONLY
\$10.00 Per 1000

See Page 90
for Details



Early Snowball Cauliflower.

Collards

One of the most popular Southern vegetables; largely used in place of cabbage. It is hardier and easier to grow than cabbage, can be grown on poorer soil and withstands insect attacks better. Although often sown during the spring and summer, the principal sowings are made in June, July and August, transplanted 2 feet apart in the row and given frequent cultivation. A most excellent vegetable for the late fall, winter and early spring. The flavor is improved by frost. Cultivate like late cabbage.

105 TRUE GEORGIA OR SOUTHERN. Stands cold weather and adverse conditions splendidly and grows on land too poor to make a crop of cabbage.

Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c.

CORN • Garden Varieties

One pound plants about 200 hills, 9 to 10 pounds to an acre. For succession, plant about every two weeks from April to the end of July; ready for the table 60 to 90 days from planting.

Culture—Extra early Dent Corn can be planted at the end of March or early in April. Sugar Corns are more tender and should not be planted until warm weather is settled and the ground becomes warm. Cultivate frequently and keep the ground free of weeds.

Early Dent Garden Corn

These are not Sugar Corns but valuable for their hardiness as they can be planted earlier and will mature quicker than Sugar Corns—hence, usually very profitable for market gardeners.

107 EXTRA EARLY ADAMS. The earliest variety and extensively used for first early table corn in the South. Stalks about 4 ft. high with few leaves and without suckers. Ears short, very full, 12 to 14 rows, kernels white and smooth; an extremely hardy sort; can be planted close together and usually popular.

Pkt., 10c; $\frac{1}{2}$ lb., 15c; 1 lb., 20c; 2 lbs., 35c; 5 lbs., 75c.

108 EARLY ADAMS. A little larger and later sort of about the same characteristics as Extra Early Adams. Stalks about 6 ft. high, ears 12 to 14 rows and a good variety for second early or very late planting.

Pkt., 10c; $\frac{1}{2}$ lb., 15c; 1 lb., 20c; 2 lbs., 35c; 5 lbs., 75c.

Yellow Sweet Corn

109 GOLDEN BANTAM. Selected Northern Grown.

The most popular variety of yellow Sweet Corn ever offered; also one of the earliest and hardiest. It can be safely planted earlier than other varieties. The plants rarely grow over 3½ ft. in height, and usually bear at least two ears, 5 or 6 inches long, on each stalk. Many people assert that Golden Bantam is the sweetest of all Corns; its plump, rich, cream-yellow kernels are tender, milky and delicious. All our Golden Bantam seed is northern grown, making it especially valuable for early planting.

Pkt., 10c; $\frac{1}{2}$ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.

110 WONDER BANTAM. There has been an ever-increasing demand for an early Sweet Corn having all of the good qualities of Golden Bantam Sweet Corn, together with a larger ear and having about the same maturing season. To accomplish this, Wonder Bantam has been introduced by the crossing of Early Wonder and Golden Bantam Sweet Corn. The stalks grow from 5 to 6 feet in height and have ears 8 to 10 inches in length filled with 8 rows of rich, golden colored kernels. It is a variety that will appeal to the critical market and home gardener.

Pkt., 10c; $\frac{1}{2}$ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.

Seed Corn Treatment Reduces Disease

Damage Seed disinfection with **Improved Semesan, Jr.**, will help greatly to prevent damage by diseases to the roots, stalks and the ears of field and sweet Corn. It protects seed against rotting, permits earlier planting, increases germination, controls blight and increases crop yields. See page 81.

YELLOW SWEET CORN—Continued.

111 GOLDEN SUNSHINE. The earliest of the Golden Bantam type, maturing a week to ten days earlier than that variety. More dwarf in habit than Bantam, with ears $6\frac{1}{2}$ inches long, containing 12 rows of broad, yellow, sweet grains. Especially desirable for its extreme earliness.
Pkt., 10c; $\frac{1}{2}$ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.

112 GOLDEN GIANT. It excels all other early varieties of Corn in size, productiveness and quality; and all the late varieties in quality and early maturity while equaling them in size.
Pkt., 10c; $\frac{1}{2}$ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.

113 BANTAM EVERGREEN. A cross between Golden Bantam and Stowell's Evergreen and is a most excellent sort of fine quality. The ears average 8 inches long and are 12-rowed, the grain is rather broad and deep and of a rich golden yellow color.
Pkt., 10c; $\frac{1}{2}$ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.

Early Sweet Corn

116 EARLY MINNESOTA. Very dependable, productive variety for home and market garden. Plants 6 feet tall, often with 2 ears. Ears 7 to 8 inches long, 8-rowed; uniform. Kernels white, fairly tender and sweet. 90 days.
Pkt., 10c; $\frac{1}{2}$ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.

117 WHIPPLE'S EARLY. Of the narrow-grained Evergreen type, but ready for use much earlier. Ears 8 to 9 inches long, 16 to 18 rows of pearly white grains. The chief distinction of this variety is that it is by far the earliest of the narrow-grained Evergreen types and has a larger sugar content.
Pkt., 10c; $\frac{1}{2}$ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.

118 EARLY EVERGREEN. An early strain of Evergreen of great value. This variety resembles the Stowell's Evergreen, but is ready for use much earlier and remains in good condition equally as long. The ears grow to a good size, usually about 7 inches long, and contain from 16 to 18 rows of deep, sweet grains.
Pkt., 10c; $\frac{1}{2}$ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.

119 EARLY SHEFFIELD. The stalks are strong and vigorous, bearing one or two fine ears to a stalk. The ears are large and entirely free from smut. The grains are of medium size, 10- to 12-rowed, well filled to each end of the ear; juicy, and of a fine sweet flavor.
Pkt., 10c; $\frac{1}{2}$ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.

Corn—Sweet or Sugar

120 BLACK MEXICAN. For home use we consider this one of the best second early sorts where tenderness and sweetness are the qualities most desired. The stalks grow about $6\frac{1}{2}$ feet high, producing ears usually 8 inches long and 8-rowed. The dry grain is dark bluish black. The ripe Corn on the cob is also bluish black, but if used young, this Corn cooks remarkably white. This is an interesting variety.
Pkt., 10c; $\frac{1}{2}$ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.

121 MAMMOTH WHITE CORY. One of the best extra early Corns, producing very large ears for so early a variety. Stalks about 4 feet high, generally bearing 2 large, finely shaped ears which become fit for use very early. Grains large, broad, very white, of fine quality and usually 12 rows to the cob. A splendid sort for private gardens and probably the most profitable for early market gardens.
Pkt., 10c; $\frac{1}{2}$ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.

122 EARLY MAMMOTH. Resembling the well known Late Mammoth in general characteristics but 10 days to two weeks earlier and slightly smaller in size.
Pkt., 10c; $\frac{1}{2}$ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.

123 HOWLING MOB. A variety a little later than Mammoth White Cory. Ears measure 7 to 9 inches in length, 12 to 14 rows; white grains. Stalks strong, of vigorous growth, $4\frac{1}{2}$ to 5 feet in height, have abundant foliage and usually produce 2 good ears to the stalk.
Pkt., 10c; $\frac{1}{2}$ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.

124 KENDAL'S EARLY GIANT. A remarkably large-eared, second-early sort which is very popular in some sections. Ears are 8 to 9 inches long, 12-rowed; grains broad, rather shallow but the quality is good.
Pkt., 10c; $\frac{1}{2}$ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.

Sweet Corn—Main Crop

125 COUNTRY GENTLEMAN. Probably the most popular of all sorts for home gardens on account of its sweetness, tenderness and delicious flavor. Ears 7 to 8 inches long, round, medium size. Grains zig-zag or staggered, small in size but set close on the cob and very deep.
Pkt., 10c; $\frac{1}{2}$ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.



Golden Bantam. (See page 11).



Stowell's Evergreen.

126 STOWELL'S EVERGREEN. One of the standard main crop sorts which has long been popular with commercial growers and canners, and is one of the best for home gardens. It is hardy, thrifty, productive, very tender and sugary, and remains in edible condition longer than most other sorts. Ears 7 to 8 inches long, having 14 to 20 rows of very deep grain. Stalks 8 to 9 feet high, bearing 2 or 3 large ears.

Pkt., 10c; ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.

127 ZIG-ZAG EVERGREEN. A development of the Stowell's Evergreen which has become very popular. The rows instead of being straight are irregular; the grains set very close on the cob. Ears are 8 inches long, large grains, very deep, sugary, tender and of fine flavor. This is becoming a very popular sort and in many sections is superseding the well-known Stowell's Evergreen.

Pkt., 10c; ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.

128 LATE MAMMOTH. The largest and latest of all Sugar Corns, producing ears which are about 11 inches long, 16 to 18 rowed. Grains are broad, somewhat short but of good flavor, sweet, tender and delicious. One of the best sorts for late crop, especially for market.

Pkt., 10c; ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.

129 CLUB ZIG-ZAG EVERGREEN. A late variety of Zig-Zag Evergreen Corn, the ear generally being

twice the size in diameter of any sort and of a fine, sweet flavor.

Pkt., 10c; ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.

Pop Corn

A very profitable crop in many sections and grown in enormous quantities. It is popularly "the boys' crop" and all gardens should have a small quantity.

WHITE RICE. ½ lb., 15c; 1 lb., 25c.

WHITE PEARL. ½ lb., 15c; 1 lb., 25c.

T. N. T. or DYNAMITE. ½ lb., 15c; 1 lb., 25c.

Corn Salad

An excellent salad for winter and spring. The seed is sown in August or September, in drills one foot apart. Press on the soil to make it firm and it will germinate better. As freezing weather approaches cover with straw or coarse litter. Seed can also be sown very early in the spring if on rich soil.

132 LARGE SEEDED. Round leaved, the best variety.

Pkt., 5c; oz., 15c; ¼ lb., 40c.

Cucumber

Usually a profitable crop for market, and if not salable for table use, finds a fair market with pickle factories. All home gardens should grow Cucumbers, as they are useful as a salad or for pickling. Cucumbers fresh from the garden are much superior to those purchased, which are often wilted.

One ounce plants 50 hills; two pounds to one acre. Plant in April or May for early crop; ready for the table 50 to 75 days from planting.

Culture—Rich soil or one containing plenty of well-rotted manure is best; hence hills are usually made about 4 feet apart using manure or sheep manure well mixed with the soil. For very earliest crop the seed may be started in hotbeds, in pots, small paper boxes, or pieces of sod, grass side down, so that they can be readily transplanted to open ground without disturbing the roots. For earliest crop outdoors plant 8 to 10 seeds in hills or drills 4 feet apart. On cold nights or threatened frost they can be protected by pieces of paper weighted with earth; after danger of frost and destruction by insects, thin the plants to about 4 to the hill. For late crop plant from the end of May until July. Cultivate occasionally, keeping the grass and weeds out, and when the fruit is ready for use, pick whether wanted or not, as it will extend the life and productiveness of the vines.

134 LONGFELLOW. The Longfellow is a White Spine type, developed so that it would have the slender, dark-green appearance of a hothouse cucumber but which could still be grown outdoors. Vines are vigorous and productive. Fruits 12 to 14 inches long and 2½ inches in diameter. Can be grown in the garden or greenhouse and stands shipping well.

Pkt., 5c; oz., 15c; ¼ lb., 50c; 1 lb., \$1.50.

135 IMPROVED EARLY WHITE SPINE. One of the best sorts for table use and probably the most popular sort grown by market gardeners and truckers. The vines are vigorous, producing fruit early and abundantly. Fruits are uniformly straight, about 8 inches long, vivid green color changing to and streaked a whitish green at the tip.

Pkt., 5c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.00.

136 IMPROVED LONG GREEN. One of the most popular sorts for home gardens and in country districts for home markets. Fruits are very long, often 12 inches, slender and uniformly dark green color. It is rather late maturing. The vines are very vigorous and fairly productive. The matured fruits are excellent and tender for table use and both large and small can be used for pickling.

Pkt., 5c; oz., 15c; ¼ lb., 50c; 1 lb., \$1.50.

137 DAVIS PERFECT. A development by crossing the Improved Long Green with an English frame variety. It is dark, rich green color, slightly tipped with white at the end; has very few seeds and is excellent for slicing. Fruits are often 12 inches long, very slim and showy. Particularly fine for home gardens.

Pkt., 5c; oz., 15c; ¼ lb., 50c; 1 lb., \$1.50.



Longfellow Cucumber.



Improved Long Green Cucumber.

CUCUMBERS—Continued.

138 EARLY FRAME. A well known, short, green variety, producing quite abundantly, uniformly straight, moderate sized fruit. Valuable for very early planting or for late use for pickling as it is more prolific than the large fruited sorts.
Pkt., 5c; oz., 15c; ¼ oz., 40c; 1 lb., \$1.00.

140 EARLY FORTUNE. The finest type of White Spine yet produced. Early and very productive; fruits grow 9 inches long, slightly tapering, flesh white, firm and crisp with very few seeds; color dark green. Quality is excellent either when sliced for use at the table, or for making pickles.
Pkt., 5c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.00.

141 JERSEY PICKLING. A variety shorter than Long Green, slender and produces very abundantly. Vines are vigorous and productive. A very popular main crop sort for market and commercial uses.
Pkt., 5c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.00.

143 NICHOLS' MEDIUM GREEN. A variety intermediate in length between the White Spine and Long Green, producing straight, medium sized cylindrical fruits of dark green color, which are most excellent for slicing and extremely popular for pickling. Vines vigorous, productive. A very profitable variety for canners and commercial growers for late crop.
Pkt., 5c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.00.

144 EARLY GREEN CLUSTER. Short and prickly; bearing in clusters; prolific; fine for bottling.
Pkt., 5c; oz., 15c, ¼ lb., 40c; 1 lb., \$1.00.

145 WHITE WONDER. Fruit, produced in clusters, is symmetrical, short, blocky and rounded at both ends; color ivory-white from time of forming until maturity; moderately productive.
Pkt., 5c; oz., 15c; ¼ lb., 50c; 1 lb., \$1.50.

Endive



HOTKAPS

for

**BIGGER,
EARLIER CROPS!**

Only \$10.00 Per 1000
See Page 90 for Details

One of the best salads for fall and winter use, and sometimes used for greens, flavoring soups and stews. It may be grown at any season but is more generally planted for fall.

Culture—For early use, sow about April 15th; for late use, sow in August, in drills 18 inches apart, and when large enough thin out to about one foot

apart. When nearly grown tie the outer leaves together over the center in order to blanch up the heart. By covering fresh plants every few days a succession may be kept up. ½ oz. to 100 ft. row.

150 GREEN CURLED. One of the hardiest and best varieties for general use. It has deep green leaves, beautifully cut and curled and is easily blanched; is very crisp, tender and of fine flavor.
Pkt., 5c; oz., 15c; ¼ lb., 40c.

151 BROAD LEAF BATAVIAN (Escarolle). A variety having broad, more or less twisted, waved, bright green leaves with thick white mid-ribs. It is much larger in growth than other sorts and has a flavor all its own. The inner leaves form a very solid, clustering head; are blanched a beautiful deep, creamy white; crisp; tender and of fine flavor. Very highly esteemed by the French and popular wherever used.
Pkt., 5c; oz., 15c; ¼ lb., 40c.

152 MOSS CURLED. A compact growing variety forming large dense clusters, finely divided, medium green leaves. When properly blanched is rich creamy white and tender. An ornamental variety for salads.
Pkt., 5c; oz., 15c; ¼ lb., 40c.

153 WHITE CURLED. Plants 12 to 13 inches in diameter; leaves finely curled, with broad ribs slightly rose tinged. Creamy white at the heart. Handsome in appearance and of fine flavor; excellent for salads.
Pkt., 5c; oz., 15c; ¼ lb., 40c.



Black Beauty

Eggplant.

Eggplant

A well-known popular vegetable which produces large purple fruits. It is served mostly fried. Seed germinates slowly and should be started in hotbed.

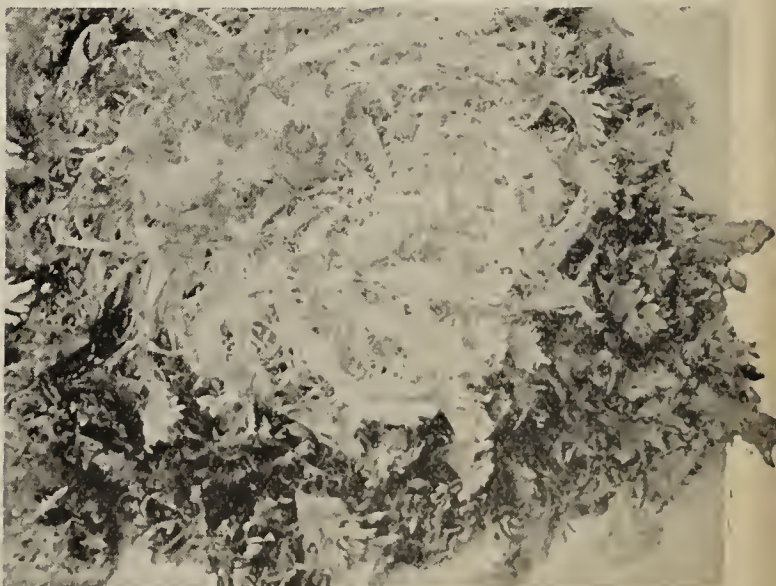
One ounce produces 1500 plants. Four ounces will produce enough to set one acre. Ready for table in 120 days from sowing.

Culture—Sow in February or March in warm hotbeds. When the plants have two rough leaves, transplant to 3 or 4 inches apart or into small pots; after all danger of frost is past, say about the middle or end of May, transplant to the garden, setting plants about three feet apart each way. It is desirable to protect the young plants from very hot sun at first.

148 BLACK BEAUTY. Ten days to two weeks earlier than New York Improved Purple. Fruits slightly longer and darker than this variety, being rich dark purple, large and symmetrical. It is very desirable for market as it holds its color a long time. It is entirely free from spines; splendid for early crop or very late planting.
Pkt., 5c; oz., 40c; ¼ lb., \$1.25.

149 NEW YORK IMPROVED PURPLE (Spineless). This has long been a general favorite both for market gardeners and home use. It is the largest variety in cultivation and one of the best. The plant is robust, usually producing 4 to 6 large, oval fruits of splendid dark purple.
Pkt., 5c; oz., 40c; ¼ lb., \$1.25.

Plants—Ready in May. We do not send these plants by mail.



Green Curled Endive.



Dwarf Green Curled Scotch Kale.

Kohlrabi

A vegetable intermediate between a Cabbage and a turnip which combines the flavor of both. It forms a turnip-shaped bulb above ground which is boiled and served like Turnips. If used when young is tender and a very desirable vegetable.

Culture—For early use sow in hotbeds and transplant. Out-of-doors sow in open ground the first part of April in rows 18 inches apart; thin out or transplant to 6 inches apart in the row. Cultivate same as Cabbage. It can also be sown the latter part of June or in July for fall use. One ounce will sow 300 feet of drill.

168 EARLY PURPLE VIENNA. Very early with small tops, bulbs good size. A variety of good quality.

Pkt., 5c; oz., 30c; ¼ lb., 75c.

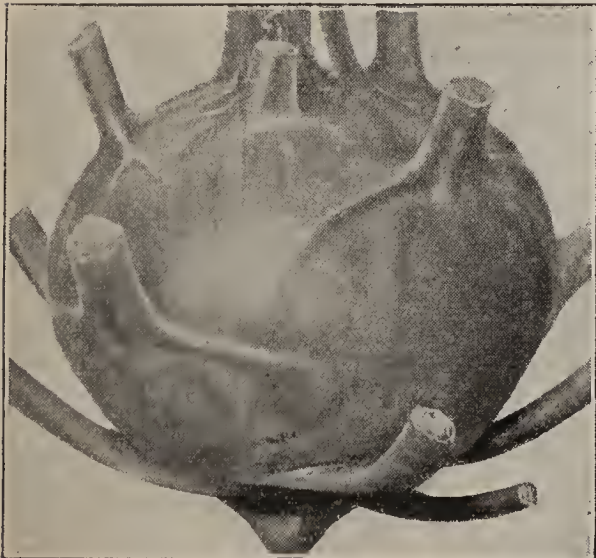
169 EARLY WHITE VIENNA. An excellent sort for general use, has white tender flesh of pleasant flavor.

Pkt., 5c; oz., 30c; ¼ lb., 75c.

Garlic

A bulbous rooted plant of the Onion family, with a strong penetrating odor; very desirable for flavoring both cooked vegetables, soups, etc., as well as salads. Garlic does not have seed and is planted from small bulbs only. Plant same as Onions in rows 8 to 12 inches apart; set the bulbs 4 inches apart in the row, covering 2 inches deep. When the leaves turn yellow, take up the bulbs, dry in the shade and store in a dry loft as you would Onions.

Bulbs— ¼ lb., 20c; 1 lb., 50c.



Early White Vienna Kohlrabi.

Kale or Borecole

A popular crop for fall, winter and spring use as greens. In the South it is boiled with bacon. Excellent for garnishing. In addition to its table uses it is a splendid soil improver and very nutritious as a grazing crop for cattle, hogs or sheep.

Culture—In this section it is usually sown broadcast from the middle of August to the middle of October at the rate of 3 or 4 pounds to the acre. Scotch Kale is sown earlier and when very early is usually sown in drills. In the spring seed can be sown in February, March and April. Spring sown Kale requires 5 to 6 pounds to the acre and Smooth Kale should have 6 to 8 pounds to the acre. The ground should be prepared cleanly and harrowed as finely as possible. Seed can be covered with a smoothing harrow or roller but not covered too deep.

164 DWARF GREEN CURLED. An old standard winter variety in this section. Leaves are light green, tinged with purple, beautifully curled, and when properly cooked make a very palatable dish of greens. In this locality, will stand the winter.

Pkt., 5c; oz., 10c; ¼ lb., 35c; 1 lb., \$1.00.

165 DWARF CURLED SIBERIAN. A vigorous growing sort of spreading habit, its green foliage having a distinctive bluish tinge or bloom. Very hardy and a favorite in many sections for greens and extensively grown for forage.

Pkt., 5c; oz., 10c; ¼ lb., 35c; 1 lb., \$1.00.

166 DWARF GREEN CURLED SCOTCH. A finely curled spreading, low growing variety, which is very popular around many trucking centers, especially in the East. The leaves are attractive, bright green color and beautifully curled, which make it excellent for garnishing. It must be sown earlier than other sorts; usually from July until end of August or can be sown in March. Can be sown either in drills or broadcast.

Pkt., 5c; oz., 10c; ¼ lb., 35c; 1 lb., \$1.00.

167 TALL CURLED SCOTCH. Leaves green, beautifully curled and wrinkled—grows about 2 feet in height; hardy, being improved by frost.

Pkt., 5c; oz., 10c; ¼ lb., 35c; 1 lb., \$1.00.

Herbs

Most of these should be sown in April and can be transplanted when large enough. The seed is small and should be sown in drills and firmed down. Keep clean of weeds. Most of them are to be cut down when in bloom, wilted in the sun and dried thoroughly in the shade.

CARAWAY SEED for Flavoring, 1 lb., 35c.

157 DILL. A popular aromatic annual herb which is largely used for seasoning pickles, sauces, soups, etc.

Pkt., 10c; oz., 25c.

161 SAGE. One of the most extensively used plants for seasoning. It is a hardy perennial growing about 15 to 18 inches high.

Pkt., 10c; oz., 40c.

THE POPPY for Flavoring, per lb., 25c.

YELLOW MUSTARD for Flavoring, per lb., 25c.



Dill.



Garlic.

Lettuce

A popular crop in all small gardens and one of the most profitable for market gardeners, both for winter forcing and for summer growing providing the weather is seasonable or irrigation can be done.

Culture—For Winter Forcing—Sow from September to February, the curled varieties about every four weeks apart or the heading sorts about six weeks apart. As one crop is cut, another should be ready for planting.

Out-of-Doors—For early spring crop, plants can be started in hotbeds and transplanted to rows one foot apart, setting the plants 6 to 8 inches apart in the row. Later sow seed in rows 12 to 15 inches apart and thin out or transplant if desired leaving heads to stand 6 to 8 inches apart in the row. A succession of varieties should be kept up from early summer until late fall.

One ounce sows 300 feet of drill. Three pounds one acre. One ounce produces about 4,000 plants; an acre requires about 50,000 plants set 8 x 15 inches.

Curled or Loose Head Varieties

173 BLACK SEEDED SIMPSON. The best sort for nearby markets and for home gardens on account of its superior quality. It forms a large, loose head, very bright green, nearly white and is exceedingly tender. Is largely used for forcing under glass and a superior sort for earlier crop.

Pkt., 5c; oz., 15c; ¼ lb., 40c.

172 GRAND RAPIDS. The most popular variety for greenhouse forcing, especially for shipping. It is of quick growth, hardy and not liable to rot; remains in good condition several days after being fit to cut. Plants are upright and uniform; leaves finely crimped at the edges. It is the heaviest loose-headed sort, will stand shipping better and is a very attractive variety.

Pkt., 5c; oz., 15c; ¼ lb., 45c.

174 EARLY CURLED SIMPSON (White Seeded). Makes a large, loose curled head similar to Black Seeded Simpson. Particularly adapted for sowing thickly and cutting when the plants are young. Leaves light green, slightly frilled, much blistered, crisp, sweet, and tender.

Pkt., 5c; oz., 15c; ¼ lb., 40c.

175 EARLY CURLED SILESIAN. An old and very popular variety which is probably the earliest and quickest sort grown. Plants loose, not quite so large as Black Seeded Simpson. Popular for outside.

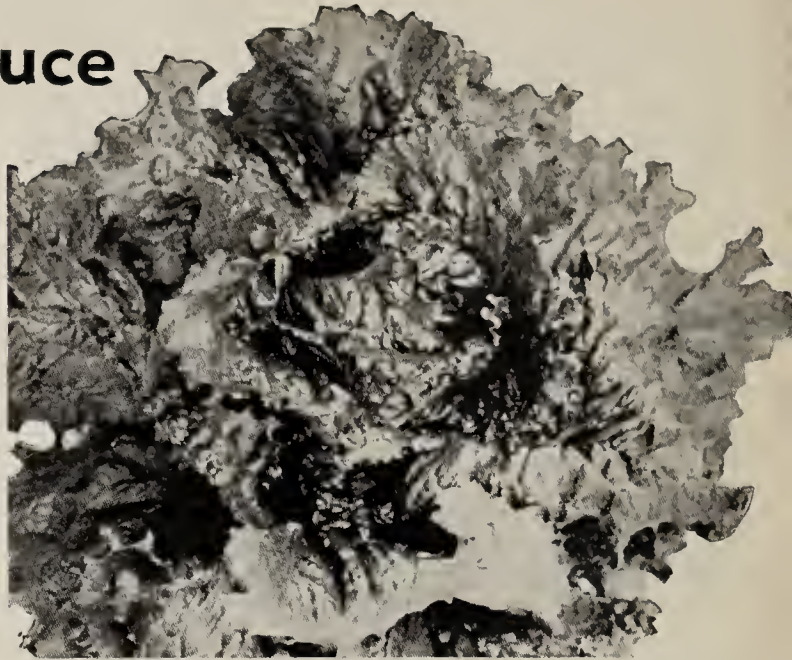
Pkt., 5c; oz., 15c; ¼ lb., 40c.

176 EARLY PRIZE HEAD. A large clustering, non-heading sort, most excellent for home gardens as it is very early. It is too tender for shipping. Leaves are finely curled and crumpled, bright green tinged with brownish red; very crisp and tender.

Pkt., 5c; oz., 15c; ¼ lb., 40c.



Big Boston Lettuce.



Black Seeded Simpson Lettuce.

Cabbage or Heading Varieties

178 ICEBERG. A beautiful Lettuce, with large, curly leaves of bright, light green, with a very slight reddish tint at the edges. Handsome heads, unusually solid because of the natural tendency of the large, strong leaves to turn in which also causes thorough blanching. Crisp, tender and fine flavor.

Pkt., 5c; oz., 15c; ¼ lb., 45c.

179 TOP NOTCH. A distinctly improved variety of Big Boston and one of the very best for forcing or out-of-door culture. Under favorable conditions the heads will measure 10 to 12 inches across; are bright, lively green color with the brownish marking of Big Boston. The heart and inner leaves are pure white. It is deliciously flavored, very tender, of splendid quality and highly recommended for extensive market growing or home use, as it will be found thoroughly reliable in heading and the most profitable of this type.

Pkt., 5c; oz., 15c; ¼ lb., 40c.

180 BIG BOSTON. This has long been a favorite sort with market gardeners and truck growers and in some sections is planted almost exclusively. It forms a large, compact head, forces well in frames and is thoroughly satisfactory for outdoor crops in the spring or very late head crops in the fall. Leaves are broad, comparatively smooth, color bright, light green. The heads are slightly tinged with reddish brown.

Pkt., 5c; oz., 15c; ¼ lb., 40c.

181 CALIFORNIA CREAM BUTTER. A splendid sort for second early crop which has glossy, deep green leaves, the outer ones slightly splashed with brown, it forms a large, very solid head, rich light yellow in color, very tender and buttery. A reliable sort for market or home gardens.

Pkt., 5c; oz., 15c; ¼ lb., 40c.

182 IMPROVED HANSON. A splendid summer heading sort and probably the most popular of its class in this section. The plants are compact, forming a large cabbage-like head which remains in good condition a long time. The outer leaves are yellowish green, somewhat crumpled with a large, distinctive mid-rib, the inner leaves white, sweet and tender. This variety is a little coarse in quality, but on account of its large size and general reliable summer heading qualities, is profitable and desirable for summer use.

Pkt., 5c; oz., 15c; ¼ lb., 40c.

183 NEW YORK LETTUCE. Blanches beautifully. Crisp, tender and free from bitterness. It produces immense heads, often 15 to 16 inches across and weighing enormously. The interior is beautifully blanched, creamy white, crisp, tender and delicious, being absolutely free from any trace of bitterness. It is a very large, robust growing variety, rooting deeply, resisting hot, dry weather, very slow to run to seed and a sure header under most trying conditions.

Pkt., 5c; oz., 20c; ¼ lb., 60c.

Muskmelon Or Cantaloupe

1 oz. plants 50 hills; 2 lbs. to one acre. Plant in May for early crop; in June for late crop.

Culture—Seed is planted in hills 6 ft. apart, putting 10 to 12 seeds to the hill and covering one inch deep. If land is not rich, use well-rotted manure or a little sheep manure mixed with the soil. When danger of insects is over, thin out to 4 plants to the hill.

187 HONEY DEW. Its name has been well chosen, as it is about as sweet as honey. The average size is about 6 inches in diameter, and weighs 5 to 6 lbs. The skin is smooth with a little netting and of creamy yellow when ripe. The flesh is beautiful green next to the outside rind shading to light green at the center. It is very thick, fine grained, and can be eaten almost to the rind and the seed cavity is quite small.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

188 HONEY ROCK OR SUGAR ROCK. The best recent introduction; originating in Indiana. Its extreme earliness is not the least of its valuable qualities. It is of medium size with a slate gray rind and coarse, rope-like netting. It has a thick, pink flesh and a small seed cavity. The flavor is excellent.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

189 GOLDEN CHAMPLAIN. Earliest of the orange fleshed melons; 75 to 80 days. Nearly round, slightly flattened at ends, 5 to 6 inches in diameter. Usually slightly ribbed and covered with an open, moderately coarse netting. The flesh is fairly thick, orange-salmon in color, juicy and very sweet. When fully ripe, the fruits show a golden color through the netting. A very good early market and home garden variety.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

190 HALE'S BEST. Since its introduction, this variety has displaced some of the older popular favorites by its outstanding merit. An early melon, ripening in 75 to 80 days. The nearly round fruits are normally 6 to 6 $\frac{1}{2}$ inches long, densely covered with a medium heavy netting and almost devoid of ribbing. The flesh is very thick and fine grained, deep salmon-pink in color, richly flavored.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

191 ROCKY FORD. The flesh is green, thick, with small cavity, very sweet and has that spicy flavor that makes a Cantaloupe so delicious. The melons are oval-shaped, slightly ribbed, well covered with fine netting and are uniform in size and shape.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

193 OHIO SUGAR. The flesh is an attractive green of fine texture, sugary, juicy, tender, and free from stringiness. It is round, inclined to oval, distinctly ribbed and thickly netted. Because of its firm flesh and solidity, it is a splendid shipper.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

194 ACME OR BALTIMORE MARKET. Similar in shape to Rocky Ford but larger. Flesh is thick, green, well flavored and sweet. Very productive and a sure cropper. One of the most desirable of the large or medium size melons.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

195 EXTRA EARLY HACKENSACK. Two weeks earlier than the Large Hackensack and produces medium sized fruit, somewhat flattened, evenly deep ribs with coarse netting. The flesh is green, slightly tinged with yellow, juicy and sweet.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

196 LARGE HACKENSACK (or Turk's Cap). An old and well-known sort which produces very large, green-fleshed fruits which are nearly round and flattened. Flesh green, thick, juicy and sweet.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

197 BENDER'S SURPRISE. Exquisitely fine flavor, large size and earliness combine to make this new melon a great favorite. The melons are of oval shape; flesh deep orange, very thick, deliciously sweet and of high flavor. Grows fairly large, weighing up to 10 pounds each. The melons are very firm, keep for a week after being picked.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

198 HEARTS OF GOLD OR IMPROVED HOODOO. A new orange-fleshed variety, ideal as a shipping melon and of the very finest quality. Fruits uniformly of medium size. Rind thin yet very firm. Flesh very thick, firm, of fine texture and delicious flavor.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

199 POLLOCK'S NO. 10-25. Best described as a salmon tinted Rocky Ford, being identical in every way, except color of flesh, which is a light salmon in color at the center, shading to a light green midway to the rind. It is rapidly superseding the green-fleshed variety in the large melon growing districts of the South and West.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

200 EMERALD GEM. An early, yellow-fleshed melon of small to medium size which is one of the very best for home gardens. Vines vigorous and productive. Fruits globe-shaped, flattened, somewhat irregularly ribbed and very slightly netted. Outer skin dark green when young, becoming slightly tinged with yellow. Flesh deep salmon-yellow, thick, melting and very highly flavored.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

201 TIP TOP. A popular sort with market gardeners, producing very large-sized melons, ribbed but almost smooth skin. Flesh salmon, very deep, a little coarse but exceedingly sweet and luscious. Especially desirable for very rich soil and one of the most profitable for market.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

202 OSAGE OR MILLER'S CREAM. A medium salmon fleshed melon of excellent quality. Fruits are oval, dark green, slightly ribbed, tinged with grey. Flesh salmon color, thick, and highly flavored. A splendid sort for late or main crop, especially for the market.

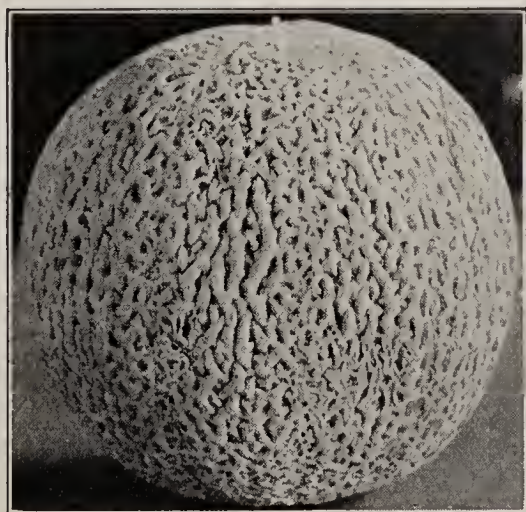
Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

203 BANANA. A long, smooth-skinned variety, growing something in the shape of a long squash. Fruit about 12 inches long, salmon flesh, which is very sweet, luscious and tender. Much esteemed in some localities.

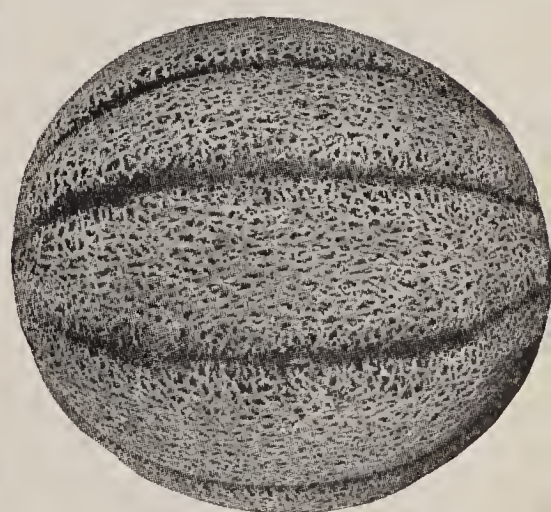
Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.



Hearts of Gold.



Honey Rock or Sugar Rock.



Hale's Best.

Watermelon



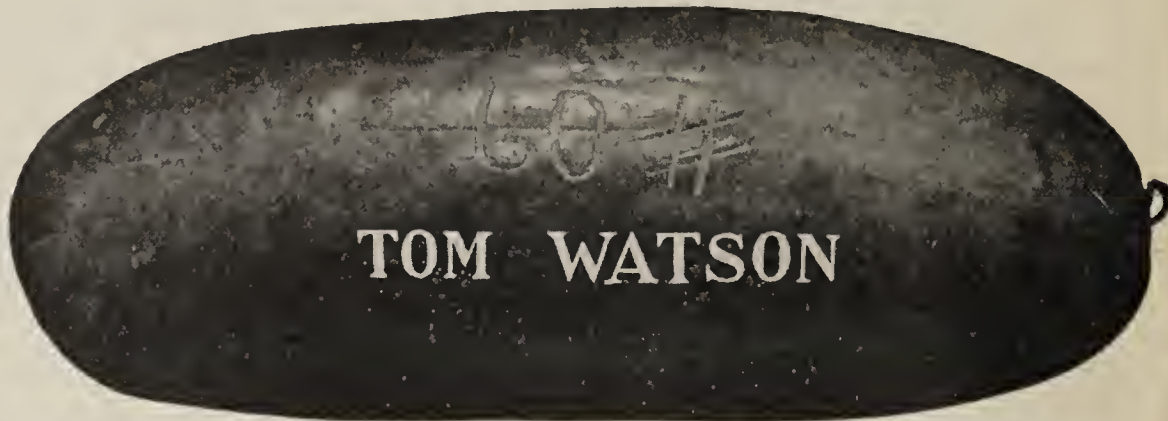
HOTKAPS

for

**BIGGER,
EARLIER CROPS!**

Only \$10.00 Per 1000

See Page 90 for Details



Watermelons do best on old, rich soil, which is not too freshly manured, hence when making the hills, well-rotted manure should be used, and it is better to prepare them some time ahead before planting the seed. If manure cannot be obtained, use good commercial fertilizer or sheep manure mixed with the soil.

One ounce plants 20 hills. 4 lbs. per acre. Plant early in May or for later use, in June.

Culture. Treat as for muskmelons, but give more room, 10 to 12 feet apart each way.

204 COLE'S EARLY. A sure cropper for northern states. Its dark red flesh is delicate in texture; rind green, striped with lighter shades, thin and brittle; of medium size, and nearly round. Matures early, especially good for home use.

Pkt., 5c; oz., 10c; ¼ lb., 30c; 1 lb., 75c.

205 STONE MOUNTAIN OR DIXIE BELLE. A melon of finest quality and claimed to be the sweetest of all of the large melons. It is almost round and has a dark green, medium thick rind. Flesh rich scarlet. It is not unusual to grow Stone Mountains weighing 70 to 80 pounds. For home use and nearby markets it is unexcelled.

Pkt., 5c; oz., 15c; ¼ lb., 40c; 1 lb., 75c.

206 EXCEL. Will produce more large, marketable melons under the same conditions than any of the other sorts of the long variety and its carrying and keeping qualities are unsurpassed. Fruits oblong in shape, dark green in color with tracings of light green. Flesh deep red, crisp and tender. Weight 35 to 60 pounds.

Pkt., 5c; oz., 10c; ¼ lb., 30c; 1 lb., 75c.

207 TOM WATSON. A long, dark green melon, which has become exceedingly popular on account of its large size and general fine qualities. Vines are vigorous and productive. Flesh rich bright red, very juicy and sweet. Most suitable for nearby markets, family gardens, and a favorite with truckers, as it stands shipping well and retains its color and good quality a long time.

Pkt., 5c; oz., 10c; ¼ lb., 30c; 1 lb., 75c.

208 KLECKLEY'S SWEET. One of the best flavored melons in cultivation and one of the best for home use or nearby markets. It is long, very dark green with thin rind. Flesh deep red, of fine, delicious flavor.

Pkt., 5c; oz., 10c; ¼ lb., 30c; 1 lb., 75c.

209 FLORIDA FAVORITE. A well-known popular sort which has long been a favorite for home use and market. Ripens early, has dark green rind, striped with light green. Flesh light crimson, exceedingly sugary, fine and tender. Very delicious and highly recommended either for home market or family use.

Pkt., 5c; oz., 10c; ¼ lb., 30c; 1 lb., 75c.

210 FORDHOOK EARLY. The fruit is of good size, rather short and blocky in form, with large diameter. Skin dark green, occasionally with faint stripes of lighter green. Rind quite thin, but skin tough, making an excellent shipping variety. Flesh bright red, crisp, sweet, and splendid quality.

Pkt., 5c; oz., 10c; ¼ lb., 30c; 1 lb., 75c.

211 KOLB'S GEM. One of the older sorts producing oval melons and all large size. The rind is exceedingly hard and firm, being irregularly marked with mottled stripes of dark and light green. Flesh is bright red, solid, a little coarse, but sweet. One of the best round sorts for shipping as it will handle better than almost any other sort.

Pkt., 5c; oz., 10c; ¼ lb., 30c; 1 lb., 75c.

212 SWEETHEART. A very popular shipping sort particularly in the South. Fruits are very large, oval, very heavy with thin rind which is of light green color, slightly veined with darker shade. Flesh bright red, firm, very sweet, and the fruits remain in condition a long time after ripening. A splendid sort for market or main crop being of fine appearance and sells readily.

Pkt., 5c; oz., 10c; ¼ lb., 30c; 1 lb., 75c.

213 PEERLESS OR ICE CREAM. A splendid early sort for home or market gardens. Vines moderately vigorous, hardy, and very productive. Fruits are oblong, medium size, bright green, finely veined with darker shade. Flesh bright scarlet, crisp and very sweet.

Pkt., 5c; oz., 10c; ¼ lb., 30c; 1 lb., 75c.

214 GRAY MONARCH OR LONG LIGHT ICING. Fruits uniformly long and large, oblong in shape. Color light green slightly veined with darker shade; flesh deep rich red of splendid quality.

Pkt., 5c; oz., 10c; ¼ lb., 30c; 1 lb., 75c.

215 GYPSY (or Georgia Rattlesnake). One of the most popular of the older sorts especially in the South. Fruits are large, very long, of light green color distinctly striped and blotched with darker shade. In the South it is very highly esteemed and especially desirable for growing and shipping. The rind is remarkably thin though very tough; hence, it stands shipping well. Flesh most tender, sweet and luscious. Fruits are uniformly good quality.

Pkt., 5c; oz., 10c; ¼ lb., 30c; 1 lb., 75c.

216 HALBERT'S HONEY. A long, dark green melon of moderate size but such splendid quality that it is especially desirable for market or home use. The rind is very thin. Flesh bright crimson and so crisp and tender that ripe melons will split ahead of the knife in cutting. We especially recommend this for general planting as it is very productive, of excellent quality and a splendid seller.

Pkt., 5c; oz., 10c; ¼ lb., 30c; 1 lb., 75c.

218 DARK ICING. A round or oval shape which has been a favorite for home use and nearby markets. Melons are medium-sized, oval, dark green in color with bright red flesh which is extremely tender and sugary. A splendid early sort and highly desirable for home or early market.

Pkt., 5c; oz., 10c; ¼ lb., 30c; 1 lb., 75c.

219 IRISH GRAY. The size is uniform and large. Color of rind yellowish gray and it is almost as tough as that of Citron. Ripens earlier than Watson and will keep in good condition for a long time after picking. Very prolific and a good shipper. A fine market sort.

Pkt., 5c; oz., 10c; ¼ lb., 30c; 1 lb., 75c.

Mushrooms

Mushrooms can be grown in cellars, sheds, under benches in greenhouses, or hotbeds. They are also planted outside in pasture or sod. It is a very profitable crop both for forcing or a field crop. Our cultural instructions are somewhat limited but we can furnish a booklet of more extended information on "Success with Mushrooms". Price, 25c.

One brick will spawn about 10 feet square.

Culture—In preparing a Mushroom bed, take three parts of fresh stable manure, free from straw, and one part of good pasture soil. Mix thoroughly together and let it stand until the heat has sunk to about 90 degrees. Make the bed from this mixture about four feet wide, eight inches deep and any desired length. As soon as the temperature of the bed is about 70 or 80 degrees, the spawn may be inserted in pieces about the size of a walnut, and six inches apart each way. When the spawn is diffused through the whole bed, which will be in about ten days from planting, cover with two inches of fine loam and press down firmly. Over this place a layer of straw about four inches thick. Do not water unless the surface gets extremely dry, and then only with water at a temperature of 80 degrees. When gathering the crop, twist them off at the roots and do not use a knife. Cover the hole with soil to keep insects away from the root. Mushrooms can be grown in a great variety of situations: under the benches in a greenhouse, a dark room, cellar, stable, or elsewhere.

ENGLISH MUSHROOM SPAWN. Well-known and popular. Put up in bricks weighing about 1¼ lbs. Per Brick, 25c; 5 bricks, \$1.00. Postage extra.

Mustard

Quite popular in the Southern States for boiling as greens. The Southern Giant Curled is becoming popular for shipping. White Seeded is used for pickles and medicinal purposes.

Culture. Sow broadcast or in drills 12 inches apart in March or April or in the fall in September or October. Cut when 3 inches high. One ounce sows about 80 feet of drill. An acre requires 4 to 6 pounds.

220 WHITE. Used for greens and the seed largely used for pickles and flavoring.

Pkt., 5c; oz., 10c; ¼ lb., 25c.

221 SOUTHERN GIANT CURLED. A large growing sort with succulent, pungent leaves of sweet flavor. the best variety for use as greens.

Pkt., 5c; oz., 10c; ¼ lb., 25c.

222 MUSTARD SPINACH OR TENDERGREEN. A desirable, quick-growing, tender variety with long, broad, fairly smooth leaves of dark green; white mid-ribs; slow to seed.

Pkt., 5c; oz., 10c; ¼ lb., 25c.



White Velvet Okra.



Southern Giant Curled Mustard.



Mushrooms.

Okra or Gumbo

One of the most popular Southern vegetables and largely used for flavoring soups, stews, gravies, and canned tomatoes.

Culture—Sow in drills 2½ feet apart after the weather has become settled and warm. Thin out to 18 inches apart in rows. To keep for winter, slice the pods when young in narrow rings and string or hang in the shade to dry.

One ounce sows about 100 feet. 10 lbs. per acre. Plant in April or May. Matures in 60 to 70 days from planting.

224 WHITE VELVET. An early maturing and very productive variety growing about 3½ feet high. Pods white, long, smooth, and very tender. This is not so deeply ribbed as the green sorts and is very popular in some sections.

Pkt., 5c; oz., 10c; ¼ lb., 25c.

225 DWARF PROLIFIC. One of the most popular sorts in the South, growing 3 feet high, producing large pods, deeply ribbed, tender and of fine flavor.

Pkt., 5c; oz., 10c; ¼ lb., 25c.

226 PERKINS' MAMMOTH. Plant dwarf; is very attractive. Produces long, slender, deep green pods which remain tender a long time.

Pkt., 5c; oz., 10c; ¼ lb., 25c.

Onion Sets

There are three distinct classes of these. **Potato or Hill Onions** can be planted in the fall from August to November and produce green spring onions, large Onions, and sets. **Perennial or Egyptian Top** Onion sets are planted in the fall and produce green spring Onions early in the spring. **Bottom Sets** or regular Onion sets of commerce are small onions which were previously grown from seed. These set out early in the spring or in the South in the fall, produce one large Onion from each set, towards the end of June or first of July. Pickling Onions (which are a larger size bottom set) are used in some localities for fall planting to produce early green spring Onions. All Onion sets are hardy and can be set in the open ground as early as the weather will permit. They are usually planted in rows 15 inches apart—4 inches apart for small sets and 6 to 8 inches apart for potato sets. Potato Onion sets can also be planted in the spring. It takes about 16 bushels of bottom Onion sets per acre, and 20 to 25 bushels of potato Onion sets, according to the size and distance apart. Cultivate with hoe until maturity.

If to be sent by mail, add 7c per qt. for postage. Prices of Onion sets are subject to market changes. Prices on application.

YELLOW DANVERS. Probably the most largely planted of all Onion sets, producing an early crop of fine quality Onions.

WHITE OR SILVERSKIN. Pure white, of mild flavor and usually preferred for private gardens.

AUSTRALIAN BROWN. A very hardy variety of medium size, extremely early and of good quality.

YELLOW POTATO OR HILL. A mild, yellow variety, producing several large Onions and clusters of sets.

EGYPTIAN OR PERENNIAL TREE (Called Top Onion Sets). For spring or summer green Onions.

Onions



Prizetaker Onion.

235 PRIZETAKER. The true Prizetaker is globe shape, has pale yellow skin and white flesh, which is very mild and of delicate flavor. It is strictly "fancy", and will be found on fruit stands during the fall, where it is sold as Spanish Onion. No sets are required, as the large onions are grown the first year from seed sown during early spring.
Pkt., 5c; oz., 25c; ¼ lb., 75c.

236 RIVERSIDE SWEET SPANISH. A very large globe-shaped, light yellow onion with small top and an exceptionally fine shipper. It is a Spanish variety resembling Prizetaker, which has quickly become very popular.
Pkt., 5c; oz., 25c; ¼ lb., 75c.

237 SILVERSKIN or WHITE PORTUGAL. A well-known and favorite variety making medium size onions of mild flavor with beautiful, clear white skin. Largely used for sets and pickling onions. Mature 10 days earlier than White Globe. Bulbs are nearly round when of bunching size but somewhat flattened when mature. One of the best flattened sorts for general use.
Pkt., 5c; oz., 25c; ¼ lb., 75c.

238 WHITE GLOBE. A fine early or main crop sort for home gardens. Flesh is firm, fine grained, white, mild and more desirable for cooking than the yellow or red sorts. Bulbs are globe shape, full at the shoulder, round at the base, keep well and a good market variety.
Pkt., 5c; oz., 25c; ¼ lb., 75c.

Parsnip

A popular vegetable for fall and winter use and of wonderful value for stock feeding. On rich loamy soil produces immense crops, more nutritious than turnips and very valuable for dairy cattle. It will remain in the ground without protection all winter and can be dug as required until it begins to go to seed in the spring; or if desired, stored in pits or cellars.

Culture—Sow in April in drills 18 inches apart, covered lightly. When the plants are about 2 inches high, thin out from 4 to 6 inches apart. One ounce will sow 200 ft. drills. 5 to 6 lbs. to the acre.

242 LARGE SUGAR or HOLLOW CROWN (Guernsey). One of the best and most popular varieties for the table. Roots long, uniform in shape, have a smooth, white skin, tender and of good quality.
Pkt., 5c; oz., 10c; ¼ lb., 30c.

One of the most nutritious and healthful of vegetables, having excellent medicinal qualities and most useful for flavoring salads, soups, meats, etc. It can be produced easily from either sets or seed and is one of the most satisfactory vegetables in the garden.

Culture—Growing Large Onions from Seed. Seed is sown in rows 15 inches apart as early in the spring as ground can be worked and covered about ½ inch deep. The Planet Jr. Seed Sower is the implement for this and it requires 4 to 5 pounds per acre. Cultivate with a wheel hoe as soon as plants are up and hand-weed. After getting a good start, thin Onions to about 4 inches apart. Constant weeding and cultivation are required throughout the season. Rich soil, most heavily manured, is required to grow large crops of Onions. The muck lands of Ohio, Indiana, and Illinois are particularly suited to this crop but fertilization has to be kept up to produce a large profitable crop. Onions grown from seed mature much later than those grown from sets.

Growing Sets. To produce commercial Onion Sets known as **Bottom Sets**, the seed is sown in rows 11 to 12 inches apart in fine, clean soil at the rate of 40 to 60 lbs per acre. Cultivate with a wheel hoe and hand-weed. The sets are ready for pulling in July and are cleaned and stored in an airy loft. For pickling Onions, one ounce sows 150 feet; 15 lbs. per acre.

230 LARGE RED WETHERSFIELD. A splendid red variety, very popular in the East. Bulbs somewhat flattened, thick and very large. Skin deep purplish red, flesh white tinged with purple, moderately fine grained, strong but pleasant flavor. It is medium early and well suited to rich soil. Is a good keeper and productive.

Pkt., 5c; oz., 20c; ¼ lb., 60c.

231 YELLOW FLAT DANVERS. An early or main crop variety of medium size, light coppery yellow color. Bulbs flattened but are quite thick with small necks. Ripen down evenly and keep well. This is the standard and most popular sort sown for yellow sets.

Pkt., 5c; oz., 20c; ¼ lb., 60c.

233 YELLOW GLOBE DANVERS. One of the most extensively grown yellow Onions. Bulbs are of large size, uniformly globe shape with small necks. Ripen evenly. Flesh creamy white, crisp and excellent flavor. Onions have a yellow coppery color, showy and handsome.

Pkt., 5c; oz., 20c; ¼ lb., 60c.

234 OHIO YELLOW GLOBE. A very much esteemed and popular sort grown extensively in this state. Particularly suited to rich soils. Onions somewhat more flattened at the base than Yellow Globe Danvers and more blunt at the top. Color rich yellow tinged with orange. Flesh, creamy white, mild, and of fine flavor. One of the best for main crop planting and shipping as it is an excellent keeping sort.

Pkt., 5c; oz., 20c; ¼ lb., 60c.



White
Globe
Onion.

Garden Peas

One of the most popular crops in the home garden and usually a profitable one for market gardeners where labor for picking can be readily obtained. One pound sows 50 feet in a row; 120 to 180 pounds per acre. The earliest sorts can be planted just as soon as the ground is in condition to work. Wrinkled varieties a little later as they are tender. For succession, plant different sorts. For fall crop sow in August.

One pound planted every two weeks will yield a succession and is enough for a medium sized garden.

Culture—Peas succeed best in light, rich, loamy soil which has been manured the previous season. Sheep manure or good commercial fertilizer in the drills mixed with the soil will give excellent results. The early dwarf varieties can be planted in rows 2 feet apart. The tall varieties in rows 3 ft. apart. Peas can be staked with sticks or wire netting on stakes. Tall varieties yield more abundantly than dwarf. Cultivate and keep clean, working the earth toward the vines rather than away from them.

Early Round or Smooth Varieties

244 MAUD S. The earliest and most prolific pea known. The pod is of a dark green color, of a full, round shape and of strong texture which especially fits it for shipping long distances. For a late fall crop it has few equals and is the market gardener's favorite for all seasons. The far northern point at which our peas are grown renders them almost proof against cold and the best for early spring or late fall crop. Thousands of market gardeners have pronounced this pea unequalled in earliness, yield and regularity of growth. Make first planting as early in the spring as the ground will permit and cover well.

Pkt., 10c; ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.

245 EXTRA EARLY. One of the best strains of extra early peas; producing abundantly. Vines grow 2 to 2½ ft. high; pods 3 to 3½ inches long, well filled with fine delicious quality peas. Not only is this probably the earliest of all garden sorts but its yield is so abundant that it is the most profitable variety of all for market gardeners, in addition to being the best early sort for home gardens. Seed is white smooth, medium size. Vines thrifty, vigorous, robust and extremely productive.

Pkt., 10c; ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.

246 ALASKA. A favorite sort with Southern truckers, producing long straight pods which will stand shipping, and remain green longer than white seeded sorts. The seed is blue, medium size. Vines about 2½ ft. high, fairly vigorous and usually produce good yields. Pods long, straight and of attractive appearance. This has long been a popular sort, is of fair quality and well known.

Pkt., 10c; ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.



Gradus (or Prosperity) Peas.



Maud S. Early Peas.

Early Wrinkled Varieties

These are of very much finer and superior quality to the smooth sorts, consequently are much to be preferred for private gardens or market use, except for very earliest crops. They are not quite as hardy as the smooth varieties, hence should be planted just a little later.

250 GRADUS (or Prosperity). One of the very best early wrinkled large podded peas. The pods are fully as long as Telephone. Vine similar in appearance and does not grow so tall, being of medium height, about 3 to 3½ feet. The pods are 4 to 4½ inches long, pointed, handsome and one of the most attractive of the early wrinkled sorts. Peas very large, splendid quality and a beautiful light green color. This has become one of the most popular varieties in cultivation.

Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 65c; 5 lbs., \$1.25.

251 THOMAS LAXTON. A very popular gardener's variety. Height, 3 ft.; vine and foliage moderately stout, medium green; pods 3½ inches long, straight and square ended, containing 7 medium dark green peas of excellent quality. Extremely productive.

Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 65c; 5 lbs., \$1.25.

252 LAXTONIAN. One of the largest podded of the dwarf wrinkled peas. Pods are about 4 inches in length, of a beautiful dark green color, similar to Gradus in shape, of splendid quality and mature a little earlier. Vines average 15 to 18 inches in height, vigorous, productive and have dark green foliage.

Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 65c; 5 lbs., \$1.25.

253 LITTLE MARVEL. An extra early dwarf wrinkled sort particularly suited to home gardens. Vines average 15 to 18 inches high; vigorous, dark green foliage. Peas are borne together in pairs of twos. Though comparatively a new sort it has become exceedingly popular on account of its large productive yield.

Pkt., 10c; ½ lb., 25c; 1 lb., 40c; 2 lbs., 70c; 5 lbs., \$1.50.

254 AMERICAN WONDER. A favorite dwarf, early, wrinkled pea which is highly esteemed and splendid for family use. Vines about 9 inches to 1 ft. high, covered with well-filled pods, medium size, about 2¾ inches long, containing 5 to 8 large, exceedingly sweet, tender peas.

Pkt., 10c; ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.

255 NOTT'S EXCELSIOR. A few days later than the American Wonder. Pods about one-quarter larger. It is remarkably hardy and can be planted almost as early as smooth sorts. Height, 1 to 1½ ft. One of the best for home gardens and a profitable variety for market gardeners.

Pkt., 10c; ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.

Medium Crop Varieties

257 PREMIUM GEM. This has long been a favorite among early dwarf peas. It matures a little later than American Wonder, is somewhat taller in growth and a little more prolific. Vines vigorous and productive, growing 15 to 18 inches high; pods 2¾ inches long, crowded with peas of fine quality.

Pkt., 10c; ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.

259 DAISY or DWARF TELEPHONE. Similar in general characteristics to the well-known Telephone. Pods 4½ to 5 inches long, dark green; peas large, of superior quality, tender and sweet. Vines 3 ft. high.

Pkt., 10c; ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.



Alderman Peas,

Peanuts

Peanuts should be shelled before planting. They should be planted in May or early June, in rows about 2 to 3 feet apart, dropping the nuts 8 to 10 inches apart, 1 in a hill. Cover 1 or 2 inches deep. Cultivate 3 or 4 times with a cultivator, so as to loosen the earth and keep down weeds, and at the last working, with a small turn-plow throw the dirt to the nuts. Do not cultivate too late in the season, as late cultivation is likely to injure the formation of the nuts. It is also advisable to make an application of lime, scattering it on top of the row just after planting. In harvesting, plow the peanuts and then stack around stakes with the leaves outside.

264 IMPROVED VIRGINIA. Large size nuts which are very popular and a fine productive strain.

½ lb., 15c; 1 lb., 25c.

Parsley

Easily grown and useful for so many purposes, such as garnishing, seasoning salads and for ornamental purposes. Grown in the garden as edging it is both ornamental and profitable.

Culture—Seed is sown in rows ½ inch deep and one foot apart. Cover firmly but not deep. As it is slow to germinate, usually taking 3 to 4 weeks, soaking in water is desirable. One ounce sows 150 ft. of drill. For winter growing it can be sown or transplanted to cold frames or to hotbeds and is usually profitable.

239 CHAMPION MOSS CURLED. A beautifully curled and crimped variety which is much preferred. It is vigorous, compact in growth and excellent for garnishing—a handsome decorative plant. One of the most popular for market and home gardens.

Pkt., 5c; oz., 10c; ¼ lb., 30c.

Inoculation for Peas—Excellent results will be obtained by treating the seeds of peas with Inoculation Bacteria before planting. It can be easily done. We have it put up in convenient size for small gardens. (See page 65).

Late or Main Crop Varieties

260 IMPROVED TELEPHONE. One of the leading peas with market gardeners on account of its vigorous, tall growth and productiveness. Vines about 4 ft. high, foliage light green, producing an abundance of pointed pods, very large and light green. Peas large, tender, very sweet, excellent flavor. A splendid sort for home gardens and profitable for market.

Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 65c; 5 lbs., \$1.25.

261 ALDERMAN. A new pea like the Telephone, only better. The vine is extra vigorous, and the pods of Alderman are dark green and always well filled with fine large peas. For a pea which should be staked there is none quite so good as Alderman. It is one of the finest of the large-podded summer varieties. The haulm grows five feet in height and is of a rich, dark green color, as are also the large pods. Pods frequently measure nearly six inches in length and contain from ten to twelve very large peas of superior flavor.

Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 65c; 5 lbs., \$1.25.

262 MELTING SUGAR (Edible Pods). These are used in the same manner as Snap or String Beans, the pods and peas being sliced and boiled. Pods very large, 4½ inches long, broad, curved and twisted. When young, they are very tender, stringless and fine flavored. Vines are tall, 4½ to 5 ft. high, with light foliage; are very strong growing and prolific. We strongly recommend more extensive planting of these fine quality peas. They are very popular in Europe and should become more generally known in this country.

Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 65c; 5 lbs., \$1.25.

For Field Peas, See Page 67.



Moss Curled Parsley.

240 HAMBURG or ROOTED. This produces an edible root resembling a small parsnip both in color and shape. Flesh white, flavor similar to Celeriac. Foliage is about the same as plain Parsley. Roots are extensively used for flavoring soups and stews and can be dug late in the fall and stored in sand for winter use.

Pkt., 5c; oz., 10c; ¼ lb., 30c.

241 PLAIN. A hardy variety having very dark green leaves which are flat, deeply cut but not curled. It is a little stronger in taste and much esteemed for flavoring soups and stews, as well as for drying.

Pkt., 5c; oz., 10c; ¼ lb., 30c.

Pepper

Culture—For earliest crop sow in hotbeds in February or March and transplant to open ground in May, setting plants about 15 inches apart in rows 2½ ft. apart. Later crops can be sown in cold frames. Cultivate and keep free of weeds. Sheep manure or some good commercial fertilizer applied broadcast around the plants and hoed in when they are about 6 inches high will produce an enormous increase and improvement in yield.

One ounce makes from 1200 to 1500 plants.

265 SUNNYBROOK. The sweetest and most prolific of all peppers. The skin is deep red, smooth, glossy, and the red flesh is extremely thick, mild, juicy and delicious, being superior for salads and for flavoring. The plants grow about 24 inches tall. An excellent home garden variety.

Pkt., 5c; oz., 40c; ¼ lb., \$1.00.

266 CALIFORNIA WONDER. Resembles Chinese Giant in the large size and blocky form of its fruit, but having an extremely thick flesh not possessed by that variety. Fruit crimson, measuring 4½ inches in length by 4 inches in diameter, mild and sweet.

Pkt., 5c; oz., 40c; ¼ lb., \$1.50.

267 HARRIS' EARLY GIANT. A very large, sweet pepper. Plants produce enormous yields and the peppers mature earlier than any other very large kind. Fruits are 5 inches high and 3½ inches through; deep green turning to brilliant red. Flesh thick and of a very sweet, pleasant flavor. This will be found a very valuable pepper for the home garden and a profitable one for market.

Pkt., 5c; oz., 40c; ¼ lb., \$1.50.

268 CHINESE GIANT. An enormous variety sometimes attaining 6 inches in diameter. It is very even in shape, flesh thick and sweet. Very handsome and of superior quality for stuffing. Plants are vigorous and fairly prolific. Very highly recommended for home use and one of the most profitable to grow for market purposes.

Pkt., 5c; oz., 50c; ¼ lb., \$1.75.

269 LARGE BELL or BULL NOSE. A large, early sort of mild flavor. Plant vigorous, 2 feet high, very productive, and ripens its crop early and uniformly. A splendid sort for salads, mangoes and for stuffing purposes. Color deep green which becomes bright crimson when ripe.

Pkt., 5c; oz., 40c; ¼ lb., \$1.00.

270 RUBY KING. A very large and attractive sort, deep green color when young, bright red when ripe. Flesh thick and mild flavor. One of the best table sorts.

Pkt., 5c; oz., 40c; ¼ lb., \$1.00.



Ruby King Pepper.



Chinese Giant Pepper.

271 RUBY GIANT. A variety of Mango Pepper, which is of a desirable size and shape for stuffing. A cross of Ruby King and Chinese Giant, grows to large size and is very mild.

Pkt., 5c; oz., 35c; ¼ lb., \$1.25.

272 LONG RED CAYENNE. A well-known medium early sort, having slender, twisted and pointed fruits about 4 inches long. Extremely strong and pungent, hence valuable for seasoning. Generally known as Lady Finger Pepper.

Pkt., 5c; oz., 40c; ¼ lb., \$1.00.

273 SWEET MOUNTAIN (or Spanish). Late maturing and an attractive sort. Fruits very large and long, frequently 7 inches in length and 2 inches in diameter; flesh mild, very thick and of excellent quality.

Pkt., 5c; oz., 35c; ¼ lb., \$1.00.

274 GOLDEN DAWN. A handsome, sweet, mild, yellow variety; fruit pendent, 1½ inches long and about the same in diameter.

Pkt., 5c; oz., 40c; ¼ lb., \$1.50.

275 RED CHILI. Pods about 2 inches in length, 1/3 to ½ inch in diameter, tapering to a sharp point. Exceedingly pungent, hence valuable for flavoring and for Tabasco Sauce. The small bright red pods are borne in great profusion, making it an ornamental plant for the garden.

Pkt., 5c; oz., 40c; ¼ lb., \$1.50.

276 PIMIENTO. The fruit is of good size, medium length and attractive color. The flesh is thick and solid, mild and of fine flavor. Desirable for salads and stuffed peppers. The plants are vigorous and upright, about two to two and one-half feet high, with short, broad, dark green leaves. The fruit is deep green when young, becoming deep red as it matures.

Pkt., 5c; oz., 40c; ¼ lb., \$1.00.



HOTKAPS

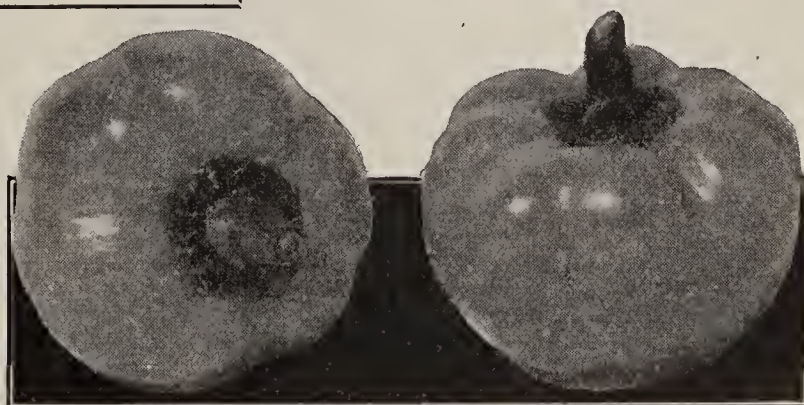
for

BIGGER,

EARLIER CROPS!

Only \$10.00 Per 1000

See Page 90 for Details



Pimiento Peppers.

Select Seed Potatoes

CHOICE NORTHERN GROWN STOCKS

Prices on Potatoes are constantly changing, subject to market fluctuations. Please write for current market prices when ready to purchase.

Culture—Potatoes are planted in rows 36 to 40 inches apart, dropping the potatoes 12 to 16 inches apart in the rows. Sheep manure or some other good commercial fertilizer should be used in the drills even if the land is heavily manured as it will pay wonderfully well. It takes about 1 pound of fertilizer to 30 or 40 feet of drill, 400 to 600 lbs. per acre. It takes 9 to 12 bushels to plant an acre according to size of potatoes and distance of rows apart. Plant for early crop as soon as the ground can be gotten in condition. For late crop, in July or 1st of August is best.

Many potato diseases, particularly the more important ones, such as scab, black leg, black rot, stem rot, etc., were formerly treated by the old-fashioned methods which required soaking of the seed for long periods and creating a disagreeable task.

The introduction of **Improved Semesan Bel** has vastly improved these conditions by giving the grower a modern, instantaneous and effective method of disinfection at a reasonable cost and far superior in all respects to even the best of those previously employed. See page 81.

EARLY OHIO. The most popular early variety. The tubers are oval, have few eyes, rather shallow. Smooth skin, white, slightly flushed with pink. It is an extra fine quality cooking potato, makes good sized yields and is a favorite in this section and many others, especially where planted in light and loamy soil.



Irish
Cobbler Potato.

IRISH COBBLER. This has become an exceedingly popular and profitable variety for growing for market. Tubers are oval with smooth white skin, have few eyes rather deep. Grows to large size and produces enormous yields. Vines are thrifty and a reliable heavy yield can nearly always be expected. An excellent sort for market purposes and produces good crops both early and late.

Sweet Potatoes

We carry in stock the best sort of seed grown by reliable planters. Varieties, **Yellow Jersey** and **Nancy Hall**. Prices variable. Write for quotations. Cannot be shipped until about April 1.

Pumpkin

These make excellent food for stock and can be grown in cornfields at practically no extra expense. We urge larger planting as they are very nutritious and afford a change in ration.

Culture—Generally planted in corn after the last working and gathered after corn has been shocked. For field crop, plant in May or June in hills 8 feet apart, about 8 to 10 seeds to the hill and cultivate until the vines get strong; then thin out leaving 2 or 3 of the strongest plants in each hill.

One ounce plants 20 to 30 hills according to the size of the seed. Two to three pounds to the acre.



Connecticut Field Pumpkin.

280 KING OF THE MAMMOTHS. An enormous flattened variety sometimes attaining 60 to 90 lbs. in weight. It is especially desirable for exhibition purposes, Halloween parties and will find ready sale in most large cities at good prices.

Pkt., 5c; oz., 15c; ¼ lb., 50c; 1 lb., \$1.50.

281 JAPANESE PIE. Fruit medium size. Skin light yellow, covered with fine grained netting. Flesh salmon, very thick, sweet, fine flavor and one of the best sorts for cooking.

Pkt., 5c; oz., 10c; ¼ lb., 30c; 1 lb., \$1.00.

282 TENNESSEE SWEET POTATO. Medium size of creamy yellow color with light green stripes. Flesh thick, fine grained, dry, brittle and of excellent flavor. Unsurpassed for pies and custards.

Pkt., 5c; oz., 10c; ¼ lb., 30c; 1 lb., \$1.00.

283 CUSHAW CROOK-NECK STRIPED. Fruit fairly large with crooked neck. Skin creamy white with green stripes. Flesh yellow, very thick, rather coarse but sweet. A productive and popular sort in most sections.

Pkt., 5c; oz., 10c; ¼ lb., 30c; 1 lb., \$1.00.

285 LARGE CHEESE. A popular sort in this section for table use and stock. Fruits somewhat flattened; skin mottled light green and yellow. Flesh yellow and of tender quality.

Pkt., 5c; oz., 10c; ¼ lb., 25c; 1 lb., 75c.

286 SMALL SUGAR. One of the best for the home garden. An excellent variety for pies. Nearly round, 10 to 12 inches in diameter; rich orange color. Flesh thick, fine grained and very sweet.

Pkt., 5c; oz., 10c; ¼ lb., 40c; 1 lb., \$1.00.

287 CONNECTICUT FIELD. Used for planting in corn for stock feeding and also for making pies. Fruits often 15 inches in diameter; smooth reddish-orange ribbed skin with orange-yellow flesh.

Pkt., 5c; oz., 10c; ¼ lb., 25c; 1 lb., 75c.

288 KENTUCKY FIELD. Grown generally throughout the central section for stock feeding. Fruits very much flattened, creamy yellow color; flesh orange. Very productive.

Pkt., 5c; oz., 10c; ¼ lb., 25c; 1 lb., 50c.



White Icicle Radish.

Radish

Finest Seed Stocks

One ounce sows 100 ft. of drill. If broadcast requires 10 to 12 lbs. per acre. For forcing in frames sow in January or February. Out-of-doors, sow from March to June for early summer crop. For late, sow from July to September. Early sorts mature and are ready for the table in 21 to 30 days from sowing.

Culture—Quick growth is essential for tender crisp radishes. Hence, rich soil and plenty of moisture are essential. They can be sown at intervals of ten days to two weeks for early use or grown as a catch crop between rows of beets, lettuce, onions, etc. When forced they require plenty of ventilation and moisture.

Round Varieties

290 EARLY WHITE TIPPED SCARLET. One of the handsomest of the turnip varieties and a general favorite in nearly all large markets. It is excellent as a forcing sort or for earliest planting outdoors. Roots nearly round, slightly flattened on under side. Color very deep scarlet with distinctive white tip. Flesh white, of best quality. We strongly advise more extensive planting of this sort in this locality.

Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; 1 lb., 85c.

291 EARLY WHITE TURNIP. Similar to Early Scarlet Turnip but little more flattened and slightly earlier maturing. It has very small tops, is of thick growth, suitable for forcing or early planting. Color clear white; flesh crisp and tender.

Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; 1 lb., 85c.

294 FRENCH BREAKFAST. A small olive-shaped variety about $1\frac{1}{2}$ inches long, which is very quick growing. Color beautiful deep scarlet shading to white at the tip. Top small. Quick maturing and splendid for very earliest crop.

Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; 1 lb., 85c.

295 CRIMSON GIANT. This variety is suitable both for forcing or early planting out-of-doors. A remarkable feature of this radish is that it will grow double the size of other round red forcing radishes and still remain solid. The ordinary forcing radish, after growing to the size of 2 inches in circumference becomes pithy, while the Crimson Giant will grow to 6 inches in circumference and still remain solid and juicy.

Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; 1 lb., 85c.

296 EARLY SCARLET TURNIP. A well-known sort producing round or oval roots of bright scarlet color. Flesh white, crisp, tender. Tops medium, quick growth; desirable for early planting.

Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; 1 lb., 85c.

297 EXTRA EARLY SCARLET GLOBE. One of the very best and most showy radishes for earliest forcing or growing outside. Roots are slightly olive shape, rich bright scarlet color; flesh white and tender. It is fit to pull very early and is especially desirable for market gardeners on account of the showy qualities.

Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; 1 lb., 85c.

Long Varieties

298 CINCINNATI MARKET. A popular sort in this section and has long been a favorite with market gardeners. It is brilliant crimson with white slightly tinged flesh, exceedingly sweet and tender. Grows 6 to 7 inches in length, straight and smooth and does not become hollow and pithy until very old. A fine sort for either market or home use.

Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; 1 lb., 75c.

299 LONG SCARLET SHORT TOP. An old standard sort, excellent for home garden or market. Tops short and small. Roots smooth, tender, uniform shape; attractive bright red color.

Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; 1 lb., 75c.

300 LONG WHITE ICICLE. The earliest of the long white varieties which is popular for forcing and earliest outdoor or early summer crop. It is productive and of excellent quality, crisp and tender. Roots are usually 5 to 6 inches long and about $\frac{1}{2}$ inch in diameter with small tops.

Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; 1 lb., 85c.

301 WHITE STRASBURG. One of the most popular and desirable of all long, white radishes. Even when small it is fine quality; remains crisp and tender much longer than other varieties. Roots $1\frac{1}{2}$ to 3 inches thick, 5 to 6 inches long, tapering. Tops medium; roots smooth, crystal white; handsome, showy, crisp and tender; desirable for market or family use.

Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; 1 lb., 85c.

Fall Radishes

303 LONG BLACK SPANISH. A favorite late sort, producing long, thick, almost black roots, with white flesh of fine texture. Decidedly pungent but well flavored. Roots are usually 7 to 9 inches long, 2 to 3 inches in diameter and it is one of the best of the long sorts and especially adapted for winter use.

Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 35c; 1 lb., \$1.00.

305 ROSE CHINA WINTER (Scarlet China). A popular sort producing cylindrical roots, stub-rooted, blunt at both ends. Is bright, deep rose color shading to white. Skin smooth, flesh white, crisp, tender and pungent. Roots usually 4 to 5 inches long, $1\frac{1}{2}$ to 2 inches in diameter. Splendid for fall and winter.

Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 35c; 1 lb., \$1.00.

306 WHITE CHINESE or CELESTIAL. A large stump-rooted radish with white skin and flesh. Can be sown from July 1 to August 15, and will keep in prime condition a long time; mild in flavor, brittle and never woody. Fine for market gardeners.

Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 35c; 1 lb., \$1.00.

307 CALIFORNIA MAMMOTH WHITE WINTER. A giant fall and winter variety. Roots from 9 to 12 inches long and 2 to 3 inches through, tapering regularly to the tips, smooth and cylindrical in form; skin and flesh white, tender and crisp.

Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 35c; 1 lb., \$1.00.



Early White Tipped Scarlet Radish.

Spinach

Has long been one of the most popular of all greens for market gardeners and truck growers and in some sections is grown in enormous quantities. In this locality Spinach is sown broadcast in March or April for early crop and from July to September for fall and winter crop at the rate of about 10 to 15 lbs., per acre. It can also be sown in drills 12 to 15 inches apart and cultivated.

One ounce sows 100 ft. of drill. 10 to 15 lbs. per acre in drills. 15 to 20 lbs. per acre, broadcast. One-half pound is sufficient for a medium garden.

310 KING OF DENMARK. The New Evergreen Spinach. This variety is superior to all others for spring planting, under the same circumstances, in the matter of standing a longer time before going to seed. Has an abundance of dark green leaves of large size and very much crumpled and of fine quality. It is fit for use in thirty days from sowing and remains in good condition fully two weeks after other varieties have started seed-stocks.

Pkt., 5c; 1 lb., 25c.

311 BLOOMSDALE SAVOY (or Norfolk). A very early sort especially desirable for fall use. Plant is upright, having glossy, thick, crimped, green leaves, pointed. A favorite sort for market gardeners and truckers.

Pkt., 5c; 1 lb., 25c.

312 ROUND THICK LEAF. One of the best sorts for spring sowing as it is somewhat slower to go to seed than Bloomsdale. Plant upright, vigorous; leaves large, thick, fresh bright green color.

Pkt., 5c; 1 lb., 25c.

313 BLIGHT RESISTANT SAVOY. A blight resistant strain of the Savoy Leaved Spinach developed at the Virginia Experiment Station, making it possible to grow Spinach successfully on infected soil.

Pkt., 5c; 1 lb., 40c.

314 NEW ZEALAND. An especially desirable sort for summer use as it thrives during hot weather in any soil, rich or poor. It has tender shoots of good quality which may be cut throughout the summer. Plant becomes very large and spreading, leaves small, broad and pointed. Plant 3 or 4 seeds in hills 2 ft. apart each way. Germination will be hastened by soaking in warm water 24 hours before planting.

Pkt., 5c; oz., 10c; ¼ lb., 25c.

Salsify

Pkt., 5c; oz., 15c; ¼ lb., 50c; 1 lb., \$1.50.

A desirable winter vegetable which should be more extensively used throughout the Central States. Roots are palatable and can be served boiled or as fritters.

Culture—Sow in April in rows 18 inches apart, thinning out to 4 to 6 inches. Cultivate deeply and often. It is hardy and will remain out all winter, but if desired can be dug before winter and stored in earth or sand to keep it from wilting.

One ounce sows 100 ft.; 6 to 8 lbs., per acre.

309 MAMMOTH SANDWICH ISLAND. The best sort, which is much larger and a great improvement over the old-fashioned long sort.

Pkt., 5c; oz., 20c; ¼ lb., 60c.



Mammoth White Bush and Golden Summer Crookneck Squashes.



Bloomsdale Spinach.

Squash CALLED CYMLING IN THE SOUTH

Summer squash requires one ounce to 30 hills. Winter varieties one ounce to 15 hills and 3 to 4 lbs. per acre.

Culture—Plant when the weather has become settled and the ground fairly warm. Bush varieties are planted 3 x 4 ft.; running varieties 6 x 8 ft.; about 4 to 6 seeds per hill and thin out later leaving the strongest plants about 3 to the hill. Hills similar to those made for Cucumbers with well-rotted manure or fertilizer are best. Winter varieties may be stored in a moderately warm dry place of even temperature.

Summer Varieties

316 GOLDEN SUMMER CROOKNECK. An old standard running sort having long fruit with uniformly crooked neck. Color is bright yellow; densely warted surface and very productive.

Pkt., 5c; oz., 10c; ¼ lb., 30c; 1 lb., \$1.00.

315 MAMMOTH WHITE BUSH. A well-known early variety, largely planted in the South both for market and home use. Color is creamy white with comparatively smooth surface, somewhat flattened and scalloped. Vines are bushy, vigorous and very productive. Known as Patty Pan or Cympling in the South.

Pkt., 5c; oz., 10c; ¼ lb., 30c; 1 lb., \$1.00.

Winter Varieties

318 IMPROVED HUBBARD. One of the best winter squashes; flesh bright orange-yellow fine grained, very dry, sweet and richly flavored. Fruit large, oval-shaped; skin dark green, rough, covered with warts. Excellent keeper.

Pkt., 5c; oz., 15c; ¼ lb., 50c; 1 lb., \$1.50.

319 GOLDEN HUBBARD. Similar to the old Hubbard excepting the skin is of a rich orange-red and heavily warted, flesh of extra fine quality.

Pkt., 5c; oz., 15c; ¼ lb., 50c; 1 lb., \$1.50.

320 WARTED HUBBARD. Similar in fruit and shape to Hubbard except that the surface is very much warted. It is very handsome in appearance and of extra quality.

Pkt., 5c; oz., 15c; ¼ lb., 50c; 1 lb., 1.50.

322 BOSTON MARROW. Vines strong, of running growth and very productive. Fruits large, orange skin, deep orange flesh, oval with hard shell; a superior winter sort.

Pkt., 5c; oz., 10c; ¼ lb., 35c; 1 lb., \$1.00.

Salsify.

**HOTKAPS**

for

BIGGER,**EARLIER CROPS!**

Only \$10.00 Per 1000

See Page 90 for Details

Tomato

Culture—For earliest crop sow in a hotbed or shallow boxes in February or March, transplanting when 2 or 3 inches high to small pots, trays or cold frames. When danger of frost is past (usually in this climate the 1st to 10th of May), set in open ground 3 x 4 feet apart. Well-rotted manure, sheep manure or other good commercial fertilizer should be used in the hills at the rate of a dessert spoonful per hill or about 200 lbs. per acre mixed with the soil. It is essential for producing good stocky growth that the soil be enriched in this manner as it will have a tendency to prevent blight and add vigor and fruitfulness to the vines. Tomatoes should be staked to keep the fruit from the ground and it will help also to prevent blight, mildew and make them more prolific.

One ounce produces about 3,000 plants; 2 ounces produce enough plants to set one acre. For early crops sow in February; for late crops sow in open bed in April or May.

Wilt-Resistant Tomatoes

The loss caused by tomato wilt is increasing each year. Wilt is a fungus that lives in the soil and invades the plant through its roots. When diseased tomato vines are plowed under they only serve to increase the infection. In the early stages of the disease the leaves curl, later they turn yellow, beginning at the bottom of the plant which slowly dies, usually about the time the fruits are half grown. No amount of spraying will do any good—the only means of controlling wilt is to grow wilt-resisting varieties.

323 PRITCHARD or SCARLET TOPPER. A scarlet, disease-resistant variety originated by the late Dr. F. J. Pritchard of the U. S. Department of Agriculture, in 1931. It is a cross between Marglobe and Cooper's Special, and has inherited fine qualities from each parent; heavily productive. Fruits large, smooth, globular, solid, with thick walls and cross sections.

Pkt., 10c; oz., 40c; ¼ lb., \$1.25.

324 BREAK O' DAY. This new early wilt-resistant tomato was developed by Prof. Pritchard of the U. S. Department of Agriculture at Washington. The fruit is the same color, shape, size and solidity as Marglobe, but ripens 10 to 15 days earlier. A wonderful yielder and the only extra early tomato that is of a deep globe shape and good bright red color. Very solid fruits and few seeds; does not crack, making it a wonderful shipper.

Pkt., 5c; oz., 40c; ¼ lb., \$1.50.

325 MARGLOBE—WILT-RESISTANT. Very productive second-early variety. Fruits large, smooth, meaty, red, globular. It will stand up longer after it becomes flushed than any other variety of tomato. Highly resistant to wilt and somewhat resistant to blights.

Pkt., 5c; oz., 40c; ¼ lb., \$1.00.

326 NORTON—WILT-RESISTANT. Norton was developed from the Stone, ripens at the same season, and can be classed as a wilt-resistant Stone, but a more abundant bearer and the fruits are more solid.



New Pritchard Tomato.

id. It yields a heavy crop of large, smooth, solid red fruits that ripen slowly, therefore is a good keeper and a good shipper; it is also remarkably drought resistant. An excellent tomato for home garden, for canning and for the late market.

Pkt., 5c; oz., 30c; ¼ lb., 90c.

Early Varieties

328 OXHEART. Because of its Oxheart shape, large size, as well as excellent table qualities, it has quickly come into general favor. The skin is pink and the flesh frequently shows 2 inches thick, without a seed cavity. The flavor has that delicious tomato quality that every lover of this fruit knows so well.

Pkt., 10c; oz., 75c; ¼ lb., \$2.50.

329 PURPLE KING. One of the largest and best of the purplish pink varieties. Vines very vigorous and productive; fruits smooth, uniform in size, nearly globe shaped. It is an extremely early sort and of excellent quality. We strongly recommend it for market gardens and it will prove one of the best sorts for home gardens for early use. It is especially valuable for shipping. Purple King will become popular wherever grown. It is a very large, early sort and its freedom from cracking is a strong point in its favor.

Pkt., 5c; oz., 50c; ¼ lb., \$1.50.

330 EARLIANA. A deep scarlet, very early variety which is largely planted by truckers and market gardeners. Fruit is borne in clusters, is medium to large, nearly round, and exceptionally smooth for so early a variety. On account of its extreme earliness and the fact that the crop ripens uniformly and very early it is one of the most valuable of the first of the early sorts.

Pkt., 5c; oz., 40c; ¼ lb., \$1.00.



Oxheart
Tomato.

EARLY VARIETIES—Continued

331 JUNE PINK. An extra early, purplish-pink sort, similar to Earliana except in color. It is a valuable variety for market gardeners and truckers, especially on markets where purplish sorts find ready sale.

Pkt., 5c; oz., 40c; $\frac{1}{4}$ lb., \$1.25.

332 CHALK'S EARLY JEWEL. A particularly desirable sort with purplish scarlet fruit, nearly round, smooth, of large size and of most excellent quality. Fruit ripens early and not inclined to crack, is early and pickings are extended over a long season. One of the best of the early sorts and unsurpassed for home gardens.

Pkt., 5c; oz., 40c; $\frac{1}{4}$ lb., 1.00.

334 JOHN BAER. An extra early scarlet fruited variety of superior merit. The vines are very hardy and exceptionally productive. The fruits are the largest of the extra early sorts and are also most attractive in color. They are nearly round, smooth, firm and of excellent quality. It is one of the very earliest to ripen its first fruits and it continues to furnish marketable fruits much longer than any other very early varieties.

Pkt., 5c; oz., 40c; $\frac{1}{4}$ lb., \$1.00.

335 BONNY BEST. The fruits of this desirable early sort are most attractive in shape and color. The crop ripens more uniformly than any other early scarlet fruited sort. The vines are vigorous and produce a good crop of exceptionally round and deep fruits, bright deep scarlet in color and of very good quality.

Pkt., 5c; oz., 40c; $\frac{1}{4}$ lb., \$1.00.

336 EARLY DETROIT. A very productive second early purple tomato, uniform in size of fruit, free from cracks and does not blight easily. Fruit large and smooth. Vines vigorous and quite productive. Quality excellent.

Pkt., 5c; oz., 50c; $\frac{1}{4}$ lb., \$1.50.

Small Fruited Tomatoes

346 RED CHERRY. Small, round fruit, resembling cherries; used for preserves.

Pkt., 5c; oz., 50c; $\frac{1}{4}$ lb., \$1.50.

347 YELLOW CHERRY. Fruits $\frac{5}{8}$ inch in diameter, perfectly round and smooth. A splendid sort for sweet or sour pickles and preserves.

Pkt., 5c; oz., 50c; $\frac{1}{4}$ lb., \$1.50.

TOMATO PLANTS. Leading varieties in season. We do not send these plants by mail.



Ponderosa
Tomatoes.

Second Early and Main Crop Sorts

337 PONDEROSA. One of the largest and finest varieties for home use. It is purplish pink in color. Vines vigorous, tall, fairly productive. Fruits are very solid and have exceptionally few seeds. It is fairly smooth for so large a variety and sometimes attains such a size that one slice will cover a dinner plate. Very free from acid, has few seeds, is of delicious flavor and most excellent for slicing; ripens about mid-season. Most desirable for home use, and the large showy handsome fruits are popular sellers for fancy fruit stands.

Pkt., 5c; oz., 50c; $\frac{1}{4}$ lb., \$1.75.

338 BEAUTY. One of the most satisfactory and popular sorts. Fruits are purplish pink, ripen evenly, are uniform in size, very solid and of finest quality. They are exceptionally smooth and do not crack readily. Vines large, vigorous and very productive, ripening fruits about mid-season.

Pkt., 5c; oz., 40c; $\frac{1}{4}$ lb., \$1.00.

333 DWARF CHAMPION. An early variety which is very dwarf growing. The vines are so stiff that they are generally self-supporting. Fruits medium size, purplish red and borne moderately early. On account of its strong, upright growth, it is sometimes sold as Tree Tomato and is desirable on extremely rich soil and where tall varieties have a tendency to make too much vine.

Pkt., 5c; oz., 60c; $\frac{1}{4}$ lb., \$1.75.

339 STONE. One of the very best tomatoes producing large, very smooth, solid fruit slightly flattened, deep red color. It is very popular with all market growers and especially desired by canners. Ripens mid-season. On account of its large yield and general uniformity in production we strongly recommend it for both market gardens and home use.

Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 60c.

340 CRIMSON CUSHION or BEEFSTEAK. Is very large, round and regular; bright scarlet skin, solid flesh of best quality, seed cells small. Plants are very prolific and of fine appearance.

Pkt., 5c; oz., 50c; $\frac{1}{4}$ lb., \$1.75.

341 TRUCKER'S FAVORITE. A large, deep purple variety, producing uniform size fruit. It is somewhat deeper color than Beauty; fruit being more globe shaped, largely used for main crop, producing fine yields of large, smooth, solid fruits which command best prices—hence very popular with truckers and market gardeners.

Pkt., 5c; oz., 50c; $\frac{1}{4}$ lb., \$1.75.

342 CINCINNATI PURPLE. A favorite sort in this locality and one of the very best for market or home use. It is very round, smooth, solid and of splendid flavor. Vines are vigorous and remarkably productive. Fruits of large size, very meaty; have small seed cells and of rich flavor.

Pkt., 5c; oz., 50c; $\frac{1}{4}$ lb., \$1.50.

343 GOLDEN QUEEN. A large growing variety bearing abundantly. Fruits are golden yellow color, smooth, well shaped and desirable for slicing as a contrast with red varieties on the table.

Pkt., 5c; oz., 50c; $\frac{1}{4}$ lb., \$1.50.



Stone Tomato.



Purple Top Globe.

351 EARLY WHITE FLAT DUTCH. Similar to Early Purple Top Flat, excepting that it is white all over. Quick grower, excellent quality and splendid for early crop.

Pkt., 5c; oz., 10c; ¼ lb., 20c; 1 lb., 65c.

352 LARGE WHITE GLOBE. Flesh white, firm and crisp; a very desirable early variety.

Pkt., 5c; oz., 10c; ¼ lb., 20c; 1 lb., 65c.

353 WHITE EGG. An early, oval variety with smooth, clear white roots, medium size, which grows half out of the ground; top small; flesh clear white, fine grained, sweet. Excellent either when young or fully matured.

Pkt., 5c; oz., 10c; ¼ lb., 20c; 1 lb., 65c.

354 LONG WHITE COW HORN. These often grow 12 to 15 inches long and are a valuable crop for stock feed; flesh is white, well flavored and good for table use.

Pkt., 5c; oz., 10c; ¼ lb., 15c; 1 lb., 50c.

357 SEVEN TOP. Used entirely for greens and very popular in the Southern States.

Pkt., 5c; oz., 10c; ¼ lb., 15c; 1 lb., 50c.

Rutabaga or Swedish Turnip

358 AMERICAN PURPLE TOP. Our stock of this is extra choice and can be depended on by the most critical growers. Rutabaga besides being best food for stock, is the sweetest of all Turnips for table use.

Pkt., 5c; oz., 10c; ¼ lb., 25c; 1 lb., 75c.

Tobacco

Saved from crown shoots only and grown for us by practical growers.

Culture—The seed is sown from February to April in open beds. Ground must be clean, very finely pulverized, raked fine and smooth. It is customary to burn over the top of the bed by piling brush or litter to destroy weed seeds and add fertility for the young plants. After sowing, beds are protected with thin cotton cloth similar to cheesecloth to protect them from Tobacco flies. About June 1st it is set in rich or highly fertilized ground in rows 2½ by 3 ft. Cultivate often and destroy worms by applying paris green or arsenate of lead.

One ounce sows 50 sq. yds., sufficient to set 2 or 3 acres. Sheep manure will give most excellent results on this crop and should be applied in hills two to three hundred pounds per acre.

Turnip

One of the easiest crops to grow and profitable for stock feeding and in most cases for markets.

They cost so little to grow, make splendid nutritious feed and should be more generally used.

Culture—For early use, sow in March or April either broadcast, or in drills, using preferably Milan or Purple Top Strap Leaf or Globe.

Rutabaga is sown in June or July, preferably in drills 2 feet apart, thinning out to 6 inches.

Turnips for main crop are sown from July to September 15th, broadcast 1½ to 2 lbs. per acre.

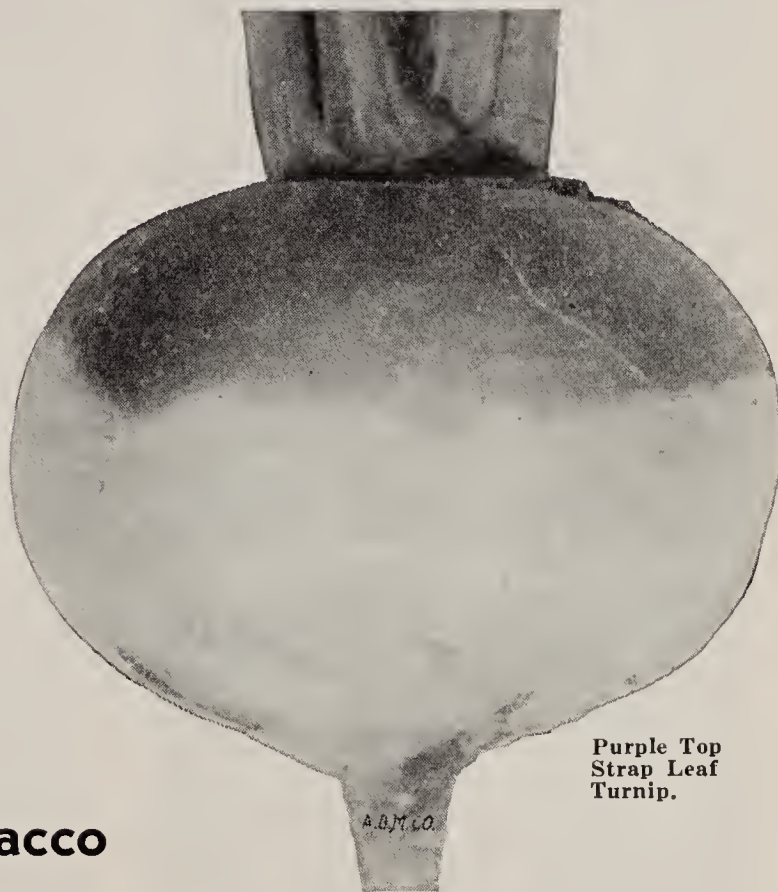
Turnips for greens can be sown as late as October 1st, and require 3 to 4 lbs. per acre.

348 EARLY PURPLE TOP MILAN. Extra early variety which is very sweet and particularly valuable for sowing in early spring. Roots are medium size, plants purple, top flat. Best for private gardens and preferable to grow for early market crop. **Pkt., 5c; oz., 10c; ¼ lb., 25c; 1 lb., 75c.**

349 PURPLE TOP STRAP LEAF. A well-known early sort which is largely used in all sections. Our stock is extra choice.

Pkt., 5c; oz., 10c; ¼ lb., 20c; 1 lb., 65c.

350 PURPLE TOP GLOBE. A very superior strain, producing large smooth roots, which are sweet and tender. One of the best for early or main crop use. Excellent either when young or fully matured. **Pkt., 5c; oz., 10c; ¼ lb., 25c; 1 lb., 75c.**



Purple Top Strap Leaf Turnip.

JUDY'S PRIDE BURLEY. This variety has won great popularity in certain sections of Kentucky and Tennessee, and we think it a good stand-up Burley. The leaf is broad, long and tapering, with prominent white ribs. The stalk is strong and holds the leaves well up off the ground. It has every characteristic of an excellent Burley and should produce a bright leaf of high quality.

Pkt., 5c; ¼ oz., 20c; oz., 50c.

360 STAND-UP BURLEY (Kelly's Type). A heavy yielder of rich, bright leaf, large, long and broad. The leaves instead of drooping have a more erect position on the plant, turning upward rather than down—hence the name "Stand-up". It is fast becoming the most popular type of Burley and is largely grown by planters in all Burley sections. **Pkt., 5c; ¼ oz., 20c; oz., 50c.**



Anchusa, Feltham Pride.



Aster, New Super Giant Los Angeles.



Calendula, Double Art Shades.

Flower Seed Novelties

The descriptions are

Anchusa, Feltham Pride (Perennial)

Beautiful as is the color of the Anchusa in the spring and early summer borders, it has the disadvantage of a rather straggling habit of growth. Feltham Pride is, however, of a much less spreading habit than either the Dropmore or Lissadel varieties, and moreover bears larger flowers and of a brighter blue. We think it is destined to replace both these well known sorts. **Pkt., 25c.**

The New English Majestic Snapdragon

This new class will produce flowers as large as the tall giant varieties but are more compact and of very sturdy growth.

FAIR LADY. New shades in the Majestic type of Antirrhinum are always keenly looked for, and we are sure that this novelty will be no less cordially welcomed than its predecessors. The very large individual flowers are of a delicate flesh-pink tinged with a deeper shade of rose. Practically a self color, with no distinctive tint on the lip. Massive and symmetrical spikes make the plant ideal for bedding. **Pkt., 25c.**

ROSELLA. The development of the wonderful Majestic section of Snapdragons continues and flowers of a rose shade having hitherto been scarce, this novelty will doubtless be most favorably greeted. It has the characteristic hyacinth-like spikes of its class, with enormous individual blooms of a rich glowing rose. Regular in habit, brilliant color, and of superb effect for bedding purposes. **Pkt., 25c.**

EVENSONG. As a valuable enrichment of the already highly popular Majestic class of Snapdragons we have every confidence in bringing this novelty before our customers. It has the same dense and shapely spike of its class and the very large individual blooms are of a chamois pink shading through apricot to buff, a charming blend of coloring which is most pleasing to the eye and gives to the plant a highly decorative effect in the garden. **Pkt., 25c.**

DAWN O' DAY. Of elegant upright habit, with massive hyacinth-like spikes. The very large individual flowers open pale rose-pink, quickly developing into a pure apricot, slightly suffused gold towards the center. It is early in flowering and will make an excellent effect in beds. **Pkt., 25c.**

PRIMROSE. Quite a new shade in the Majestic section of Antirrhinums, now so rapidly growing in popularity. It has all distinct characteristics of its class; the individual blooms are large and well set on a massive spike, but the color is a beautiful primrose yellow, deepening just a little towards the center. This unique coloring, together with a very large number of secondary spikes and a long blooming period, render this novelty an excellent subject for massed bedding. **Pkt., 25c.**

Asters—New Types

SUPER GIANT LOS ANGELES. Aster Los Angeles is the first variety of this giant race, and how beautifully it upholds the romantic traditions of its namesake, the glamorous city of sunshine and flowers. The color is a serenely pure shell-pink, in flowers which are full petaled, deep, and unusually large, yet artistically graceful in the feathery effect of the interlacing petals. Loosely arranged in a tall pewter vase, the long-stemmed flowers lend a feeling of quiet dignity to any decorative arrangement. In the annual border or cut flower bed in the garden, they stand majestically above their fellow asters, and show up to best advantage when combined with a planting of the Blue Lace Flower, Didiscus. **Pkt., 25c.**

GIANT MAMMOTH PAEONY FLOWERED

ROSEBUD. The color of this aster is that rare, deep clear rose which reminds one of a newly opened rosebud, still fresh with dew. The flowers are large, well formed and fully double, borne on the long stout stems characteristic of the Paeony Flowered type. In the garden or in bouquets, Rosebud is a lovely addition to this large flowered strain. **Pkt., 20c.**

SILVERY ROSE. Delicate lavender-pink, full petaled, large and fully double, with just a suggestion of silvery white at the tips, this is an aster which is unique in this class. Excellent for bedding and for cut flower use as well. **Pkt., 20c.**

Calendula—Double Art Shades

Contains many tones and shades not previously obtainable—delicate apricots, beautiful picotees, orange shades, cream tones—in fact, every conceivable tint from almost pure white through cream and buff to yellow and deep orange. **Pkt., 15c.**

and Specialties for 1934

those of the raisers

Calendula Chrysantha or Sunshine

Chrysantha is a new Calendula outstanding among all varieties. Many improvements have been made on Calendulas, but no other can compare with this lovely newcomer from far-off Australia. The large flowers are exquisite buttercup yellow, with long, loosely arranged petals, which droop to give the rounded appearance found in our favorite Chrysanthemums. Besides adding a bright golden splash of color to the garden, Chrysantha is a fine cutting variety, with long, stiff stems, well adapted to combine with other flowers, such as blue delphinium, in bowls or vases. **Pkt., 15c.**

Calendula, Apricot Queen

Various breaks in color and form of Calendulas have occurred, and what we offer here is a flat-petalled variety of a bright apricot shade, deepening slightly towards the center. It is excellent for all purposes. **Pkt., 20c.**

Candytuft Miniature Gem

(Hyacinth Flowered Type)

The result of years of selection has produced a dainty, miniature hyacinth-flowered annual Candytuft about three and a half inches high, each plant producing four to six spikes. A perfect miniature gem for the rock garden. **Pkt., 15c.**

Annual Canterbury Bells

Bring Spring to the Garden in September

LIBERTY BELL. An intense violet-blue in color. The type is single and grows from two to two and one-half feet high, each plant having from six to eight spikes of flowers. It flowers in less than six months from the time seed is planted, and is a continuous bloomer until frost. It continues to throw up new spikes even after seed has been set. It is a good cut flower and suitable for pot culture. **Pkt., 25c.**

ANGELUS BELL. A beautiful Art Shade of deep rose, one of the most attractive colors that we have ever seen in Canterbury Bells. Angelus Bell is a very fine companion to Liberty Bell. **Pkt., 25c.**

New Chrysanthemums

MAWI. A perennial Chrysanthemum with rich pink flowers, perfectly hardy. An ideal subject for border or rockery, height about one foot, flowers two inches across. The beauty of this variety is enhanced by the silvery foliage. **Pkt., 25c.**

CASCADE. A new race of Perennial Japanese Chrysanthemums, bearing large clusters of small single flowers in shades of scarlet, bronze, orange, yellow and white. Beautiful when grown in masses affording a splendid colorful garden effect, long to be remembered. March and April sown seed in the open ground will bloom in September and October. An admirable greenhouse or potted plant, falling as it does in cascades of beautiful flowers. **Pkt., 20c.**

Dimorphotheca Calendulacea

LEMON QUEEN. This is a dwarf and uniform type, forming very compact plants, with flowers of a deep chrome yellow. It may be sown outdoors about the second week in April, but the best results are obtained by sowing inside in March. Plant out in May, giving a situation exposed to full sun if possible. **Pkt., 20c.**

Gypsophila Pacifica

A good rose colored perennial baby's breath, coming into flower after the paniculata varieties have passed. Flowers are produced the first season from seed and it is perfectly hardy. The plant reaches a height of 3½ to 4 feet, and is a veritable cloud of rose colored flowers, excellent in bouquets. **Pkt., 20c.**

Hunnemannia, Sunlite

A double flowered annual poppy which is different. Its extra band of petals is produced on the outside, rather than the inside of the tulip shaped flowers, giving the impression of being open, even after closed for the night. The flowers are a bright canary-yellow, and the foliage of the two foot bush is a light gray-green. They like a sunny position in a well drained border and flower freely in late summer. **Pkt., 15c.**

Larkspur, Giant Imperial Blue Bell

Blue Bell is a fine medium blue larkspur, deeper than sky blue, yet much lighter than lilac, a color up to this time lacking in the Giant Imperial type. The type is decidedly upright, with long basal branched flowering spikes, well adapted for cutting. **Pkt., 15c.**



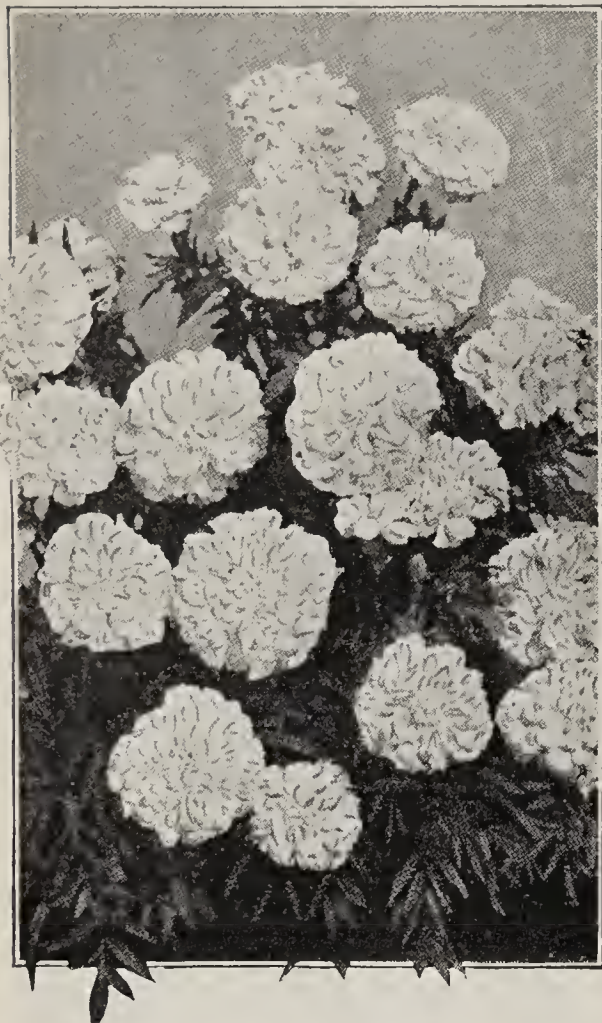
Chrysanthemum, Mawi.



Dimorphotheca Calendulacea.



Lewisia Howelli. (See next page.)



The Queen Strain of Marigolds.



Meconopsis Regia.

Flower Seed Novelties

The descriptions are

Lewisia Howelli

A creeping hardy perennial, forming a wide rosette of narrow crinkled foliage, not exceeding 3 inches in height, and throwing up stems about 6 inches long, crowned with flowers of apricot, streaked with rose. A rare and lovely plant, which will be of admirable effect in rockeries. From seed sown in spring the plants will bloom in the following year. The seedlings should be given a sunny and well-drained situation and must not be over-watered. **Pkt., 35c.**

Marigold, African Golden Beauty

A new color in African Marigolds, a soft, pure golden yellow. Golden Beauty is to be preferred to either the lemon or orange varieties hitherto available. Semi-quilled petals and intensely double. Height 3 ft. Half-hardy annual. **Pkt., 20c.**

The Queen Strain of Marigolds

Large Flowered Dwarf African Type

This new strain of African Marigolds will rapidly find favor for bedding. The plants are sturdy and when well grown form perfect pyramids, each carrying as many as 30 to 40 flowers fully open at the same time. The large blooms measuring as much as 3 inches across, have flattish petals which take away from the plant that coarseness sometimes associated with African Marigolds. This strain will produce at least 90% of double flowers. Height 18 inches.

PRIMROSE QUEEN. Pkt., 20c. GOLDEN QUEEN. Pkt., 20c.
YELLOW QUEEN. Pkt., 20c. 3 Pkts. for 50c.

Marigold, Guinea Gold

This is a very distinct type of Marigold, of graceful pyramidal habit, growing 2 to 2½ feet high, and producing 30 to 40 flowers, 2 to 2½ inches across, of a brilliant shade of orange, flushed with gold. Unlike the ordinary African Marigold, this new variety produces no single flowers, but practically 100% semi-double. The characteristic Marigold odor, too, is much less pungent than in other sorts. **Pkt., 15c.**

Meconopsis Regia

This magnificent new Meconopsis was discovered in Western Nepal in 1928. It belongs to the evergreen section and during the winter months the plants form flat rosettes of very beautiful silvery leaves, and are throughout the winter of very striking and attractive appearance. Towards May they send up stems 3 to 4 feet high bearing large handsome yellow flowers on short stalks in the leaf axils. This Regal Meconopsis is considered the finest of all the yellow-flowered species, and has been given an Award of Merit in 1931 and later the First Class Certificate of the Royal Horticultural Society. **Pkt., 50c.**

Mesembryanthemum Criniflorum

(Livingstone Daisy)

A Wonderful New Annual

Criniflorum is absolutely hardy and one of the most easily grown Annuals. The plants, which are of slightly spreading habit, are literally covered with flowers, measuring about one inch, of the most delightful shades imaginable. There are pure whites tinted and edged with rose, crimson, pink and buff; and self colors including primrose, golden, buff, apricot, crimson and pink. An ideal carpet or rockery plant and a gem for edging. Will succeed admirably in crevices of crazy paving or old walls and thrives well in poor soil. **Pkt., 25c.**

A New Double Sweet-Scented Nasturtium

GOLDEN GLEAM. The plant forms a vigorous, large bush which throws out short runners, averaging eighteen inches. The double flowers commence to come as soon as the plant nears complete development and at the time it is in full bloom, the entire plant, including the runners, is a blaze of color. The large, golden-yellow flowers average 2½ to 3 inches across. They are borne on erect, stiff stems 6 inches in length. Consequently, the flowers stand well above the foliage, an arrangement which adds immeasurably to the showy appearance of the plant. Very fragrant. **Oz., 50c; large pkt., 15c.**

Pansy, Engelmann's Strain

Nowhere are Pansies more loved or better understood than in England, the home of Mr. Engelmann. In the Engelmann establishment, an infinite amount of care is taken to produce nothing but the finest types of extra large Pansies in a great variety of shades. The Special Strain is the old Scottish Show type, reselected to a strain of immense flowers having a wide range of colors, both dark and light. A very compact and early flowering strain. **Pkt., 75c.**

and Specialties for 1934

those of the raisers

Rudbeckia Kelvedon Star

A perfect long-stemmed flower for cutting, a sturdy and floriferous plant for bedding, a new annual. The flowers vary both in form and coloring but all have dark brown centers, surrounded by a shining mahogany zone, on petals of deep gold. A rampant grower, reaching 3 ft. in height, and should be planted 18 inches apart with 2 ft. between the rows. By June it will fill the bed and flower until frost. Sowings should be made in February and seedlings planted out in late April or early May. **Pkt., 20c.**

Tithonia Speciosa

THE GOLDEN FLOWER OF THE INCAS or Mexican Sunflower

Tithonia is a rare plant coming from Mexico, the home of the Dahlia. History tells us that Tithonias were found growing in Peru as early as 1531, and were later found in Mexico. It is remarkable that a flower of such striking beauty should have been lost to cultivation. We now offer it as a novelty, which it is to the American gardener. The flowers are large and remind one of an immense single Zinnia. The color is a dazzling orange-scarlet. An annual of rapid growth and easy culture, throwing up from the roots many stout woody stems with large foliage. It forms a shrubby plant and flowers for a long period. The flowers are three to four inches across and can be cut with two to three foot stems. They last a long time in water. From seed sown in the frame in March, plants begin to bloom in August; sown outdoors in May, plants bloom in September and continue in either case until frost. Tithonia is especially desirable for planting among shrubs, adding much color; or can be planted in the background of either the hardy or the annual border. Planted two feet apart in rows, it forms a striking hedge, and indeed a most effective screen. **Pkt., 20c.**

Scabiosa, Tall Double Blue Cockade

This outstanding novelty is deeper in color than Azure Fairy, but the flowers are entirely devoid of any suggestion of rose. They are, in fact, the purest deep azure blue that can be found in any annual. The formation of the flower is far ahead of existing varieties, and has so great a depth as to be almost conical in shape. An excellent cut flower, being strong-stemmed and free-flowering. A good plant for general purposes. Height 3 ft. **Pkt., 20c.**

Sweet Pea, Fantasy Mixture

A unique mixture and an entirely fresh class of Fantasy markings and colorings. Fantasy mixture is beautifully veined and watered. Orange, light and dark blue, all shades of pinks, chocolates, lavenders, maroons, mauves and a dozen other colors are represented. Fantasy mixture makes an exceptionally attractive bouquet and being a very strong-growing strain, will be welcomed for general garden work. Its value is further enhanced by the exceptionally strong and fragrant scent. **Pkt., 20c.**

New Verbena, Spectrum Red

As its name implies, this magnificent Verbena is an intense bright red, brighter than any other Verbena yet introduced. According to Ridgway, it is classified between spectrum red and scarlet red. Having absolutely no eye, the color is intensified, and its brilliance is quite dazzling. It is much brighter and larger than Lucifer and is comparable only to Etna, but without Etna's yellow eye. Individual florets are one and one-fourth inches in diameter. We strongly recommend this as the brightest Verbena in existence. **Pkt., 35c.**

New Verbena, Cerise Queen

A beautiful shade of soft salmon-cerise, quite new in Verbenas, making a charming addition to this group. It has immense individual flowers one and one-fourth inches in diameter on giant trusses, with fairly long stems, making this Verbena suitable for cutting. It is recommended to all who want a lively new color in Verbenas. **Pkt., 35c.**

A New Verbena for Borders and Bedding Carmine Ball

A beautiful dwarf compact Verbena, forming a perfectly symmetrical plant about ten inches high and twelve inches across. It is completely covered with bright carmine flowers. The plants easily carry fifty to sixty trusses in bloom on the plant at one time. It is a continuous bloomer and will make a wonderful bedding plant, besides being indispensable for pots and borders. **Pkt. 35c.**



Sweet Peas, Fantasy Mixture.



Verbena, Carmine Ball.

SEEDS OF ANNUAL FLOWERS

The life of the true Annual does not extend longer than one season. Itself the product of a seed, the plant produces flowers, ripens its seed and perishes in the same year.

They have many advantages. The seeds of Annuals are inexpensive, the flowers can be enjoyed both by the home renter as well as the home owner. Because of their short period of growth, they can be used to fill up gaps in the Perennial border and to succeed plantings of spring-blooming bulbs, such as Tulips, Hyacinths, etc.

Annuals have a delicate beauty all their own and no plants surpass them in brilliancy for summer display. They furnish material for a whole garden, as well as cut flowers for home decoration.

A succession of bloom may be had by occasional sowing of many sorts, such as Alyssum, Candytuft, Eschscholtzia, Zinnias, etc. In the latitude of Cincinnati, Ohio, these sowings may be made as late as July 1st to 15th. Another method now being used more than ever is the autumn planting of Annual seeds for early spring bloom, such as Cornflowers, Gypsophila, Larkspur, Petunias, etc.

This year we have segregated the flower seeds, placing Annuals in one group, followed by Perennials, Vines and those for greenhouse culture. Consult the index if in doubt.

NOTE: We send out no untested seed and when failure occurs, we invariably find that the seed had been planted too deep or the soil has been permitted to become excessively dry, or the reverse, while germination is taking place.

Seeds of Annuals, unless otherwise noted, should be started indoors in a light, sifted soil with sand and humus or clean leaf-mold added. Water the soil thoroughly and allow to drain and then sow seed thinly in rows. Cover with paper or glass to conserve moisture. Plant out when all danger of frost has passed. Some Annuals may also be sown where they are to flower, the young plants later being thinned out.



Perfect color combination No. 1. Petunia, Rosy Morn and Ageratum, Dwarf Blue.

PLEASE NOTE

All 10c packets, 3 Pkts. for.....	\$0.25
All 15c packets, 2 Pkts. for.....	.25
All 20c packets, 3 Pkts. for.....	.50
All 25c packets, 3 Pkts. for.....	.65
All 35c packets, 3 Pkts. for.....	1.00

All varieties marked with a ® throughout the list of Annual flower seeds are especially suitable for the rock garden.

The Book of Annuals in the Garden by H. Stuart Orloff will help you. See page 95 for description and price.

Ageratum - Floss Flower

One of the best bedding plants, being literally a sheet of bloom from early summer till frost. Easily raised from seed started in a hotbed and in May transferred to the garden, 4 to 6 inches apart. Can also be sown outdoors in May.

® 401 **DWARF BLUE CAP.** This is by far the best all around dwarf Ageratum yet produced. The plants are tiny mounds of flowers, which are large and compact and a deep rich blue. The foliage is small and inconspicuous, so the effect is that of a solid mass of flowers, making a narrow ribbon of color around a flower border. **Pkt., 20c.**

® 402 **LITTLE BLUE STAR.** Compact with small, beautiful, mauve-colored flowers, suitable for edging or rockwork. **1/16 oz., 25c; Pkt., 10c.**

403 **BLUE PERFECTION.** Large heads of deep blue flowers in abundance. Fine for cutting. Height 12 inches. **1/8 oz., 25c; Pkt., 10c.**

® 404 **IMPERIAL DWARF BLUE.** Habit very dwarf and compact, well adapted for ribbon borders. Height 9 inches, **1/8 oz., 25c; pkt., 10c.**

Color Combinations

No doubt at some time or other, while walking through the various gardens of your friends, you have admired some color combination that appealed to you instantly. With this in mind, we offer you the following:

COMBINATION NO. 1, 25c.

Petunia Rosy Morn with Ageratum, Dwarf Blue.

COMBINATION NO. 2, 35c.

Aster Super Giant Los Angeles with Blue Lace Flower (Didiscus).

COMBINATION NO. 3, 25c.

Calendula, Chrysanthra or Sunshine, with Delphinium Belladonna.

COMBINATION NO. 4, 35c.

Verbena, Beauty of Oxford, with annual Bluebird Anchusa.

COMBINATION NO. 5, 25c.

African Daisies (Dimorphotheca), mixed colors, with Balcony Blue Petunias.

COMBINATION NO. 6, 40c.

The New Guinea Gold Marigold with Elk's Pride Petunia.

All the above varieties are described in full throughout the general list of flower seeds. Pages 34 to 63.

Alyssum

A fragrant edging plant with small, white flowers in great profusion throughout the summer and autumn. Useful for borders and window-boxes. For Alyssum saxatile see Perennial List.

- ®405 **MINIMUM**. Miniature sort. The dwarfest of all; tiny, compact little plants only 2 inches high, smothered with small, pure white flowers. $\frac{1}{4}$ oz., 25c; pkt., 10c.
- ®406 **CARPET OF SNOW**. Of creeping habit, forming a dense carpet of beautiful white flowers. Height, 4 inches. $\frac{1}{4}$ oz., 25c; pkt., 10c.
- 407 **TOM THUMB**. A splendid sort for edges, borders, or rock work. Height, about 6 inches. A compact mass of bloom 12 to 15 inches across. $\frac{1}{4}$ oz., 25c; 1 oz., 75c; pkt., 10c.
- 408 **SWEET**. Height, about 8 to 10 inches but spreading. Oz., 25c; pkt., 10c.
- 409 **LILAC QUEEN**. Is of dwarf, compact habit and the deep lavender-like flowers are borne in profusion. $\frac{1}{4}$ oz., 25c; 1 oz., 75c; pkt., 10c.

Amaranthus

Effective plants because of their brilliantly colored foliage. Flowers are interesting. Best in sunny positions on rather poor soil.

- 410 **MOLTEN FIRE**. Brilliant Poinsettia-like tips. Pkt., 15c.
- 411 **TRICOLOR**. (Joseph's Coat). 2½ feet. The inner foliage is of blackest bronze, tipped with green, the outer bright scarlet and gold. Pkt., 10c.

Anchusa

- 412 **BLUE BIRD**. A dwarf compact type, 18 inches high, with indigo blue blossoms. Blooms freely during late spring and summer. $\frac{1}{4}$ oz., 25c; pkt., 10c.

For Anchusa Italica see Perennial List.

Arctotis - Blue-Eyed African Daisy

- 438 **GRANDIS**. Forms much branched bushes 2 to 3 ft. high; its flowers are large and showy, being pure white on the upper surface, the reverse of petals, pale lilac-blue; blooms early in July and continues until hard frost. It delights in a sunny situation. Half-hardy annual. $\frac{1}{4}$ oz., 25c; pkt., 10c.

Begonia

The following varieties of Begonia semperflorens and B. gracilis take rank as bedding plants with Geraniums and Coleus, doing equally well in full sunlight, and surpassing both in positions partially or wholly in shade. They are of sturdy growth, growing about 1 foot high, and forming dense bushes.

Everblooming Bedding Varieties

The small, bright flowers are borne in great profusion from summer to autumn. Spring seedlings bloom in summer while summer seedlings make fine house plants for the winter.

- 476 **SEMPERFLORENS, SALMON QUEEN**. Very attractive new variety with large, salmon-colored blossoms and dark foliage. 5 pkts., \$1.00; pkt., 25c.
- 477 **GRACILIS LUMINOSA**. Fiery, dark scarlet flowers and satiny brown foliage. 5 pkts., \$1.00; pkt., 25c.



Alyssum, Carpet of Snow.



Begonia.

3003 Five Long-Stemmed Cut Flowers.

Cornflower. Double blue.
Cosmos. Early flowering mixed.
Didiscus. Blue Lace Flower.
Santa Barbara Poppy.
Snapdragon. Giant mixed.

This collection of 5 Annuals for cutting (Value 50c) for **35c**

3005 Twelve Perennials for Rock Gardens.

Alyssum saxatile compactum.
Arabis alpina.
Aubrietia. Wall Cress.
Campanula carpatica, blue.
Cerastium tomentosum.
Cheiranthus. Siberian Wallflower.
Dianthus caesius.
Gypsophila repens.
Helianthemum mutabile.
Iberis sempervirens.
Saponaria splendens.
Tunica saxifraga.

This collection contains 12 easily grown perennials for the rock garden (Value \$1.25) for **90c**

FLOWER SEED COLLECTIONS

3001 Our Dollar Flower Collection:

Alyssum. Tom Thumb.
Aster. Royal mixed.
Calendula. Double mixed.
Calliopsis. Tall mixed.
Gaillardia. Indian Chief.
Larkspur. Tall double mixed.
Marigold. African double mixed.
Pansy. Mixed colors.
Petunia. Hybrida mixed.
Phlox Drummond. Mixed.
Poppies. Shirley mixed.
Scabiosa. Tall double mixed.
Strawflowers. Mixed.
Verbena. Mixed.
Zinnia. Giants mixed.

This collection of sixteen showy and easily grown Annuals (Value \$1.60) for **\$1.00**

3004 Flowers for the Semi-Shaded Spots:

Clarkia. Mixed.
Forget-Me-Not. Semperflorens.
Godetia. Finest mixed.
Marigold. Legion of Honor.
Nemesia suttoni. Mixed.
Snapdragon. Mixed.

The above six packets of flower seed suitable for shady locations. (Value 65c) for **50c**

®3002 Annuals for the Rock Gardens:

Ageratum. Dwarf blue. 8 in.
Alyssum. Minimum. 2 in.
Candytuft. Mixed. 12 in.
Gypsophila muralis. 9 in.
Ice Plant. Trailing.
Portulaca. Single mixed. 9 in.
Snapdragon. Dwarf mixed. 8 in.

This collection of 7 Annuals will give results in your rockery the first year. (Value 70c) for **50c**

Gorgeous Snapdragons (Antirrhinum)

Snapdragon have been amazingly improved in size and color. They are hardy and should be sown early, as they germinate slowly. Unless very rich soil is provided and all plants are staked, the dwarf and semi-tall class will be most satisfactory in the garden. They are effective in beds of solid color, and require full sun. Keep seed pods picked off. If intended for winter flowering, cut back in September.

The New Majestic Snapdragons

These giant-flowering, semi-tall Snapdragons bring us flowers as large as those represented in the tall giant varieties offered below. The plants, however, are not as tall and are therefore better suited for borders and beds. They form well-rounded, symmetrical bushes, growing about 2 feet tall.

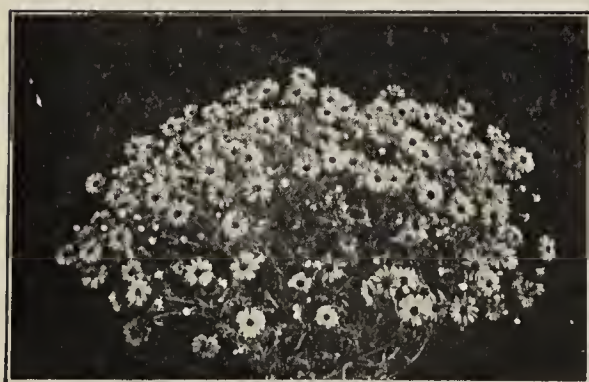
- 413 AVALANCHE.** Masses of snowy white flowers. 1/16 oz., 40c; Pkt., 15c.
- 414 DAWN O' DAY.** For description, see Novelty page 30. Pkt., 25c.
- 415 DELIGHT.** A delicate salmon-pink, shading to apricot with a golden yellow center. 1/16 oz., 40c; pkt., 15c.
- 416 ELDORADO.** This novelty is of a deep golden yellow, quite the richest tint yet produced in Snapdragons. 1/16 oz., 40c; pkt., 15c.
- 417 EVENSONG.** For description, see Novelty page 30. Pkt., 25c.
- 418 FAIR LADY.** For description, see Novelty page 30. Pkt., 25c.
- 419 GOLDEN DAWN.** A distinct color, golden buff overlaid with salmon. The general effect is a light orange. 1/16 oz., 40c; pkt., 15c.
- 420 ORANGE KING.** The flowers are a lovely blend of rich terra-cotta shades merging into a pure deep orange at the base, with a contrasting yellow lip. 1/16 oz., 40c; pkt., 15c.
- 421 PRIMROSE.** For description, see Novelty page 30. Pkt., 25c.
- 422 RED CHIEF.** A rich deep scarlet. Very bright. The individual blooms are extremely large. 1/16 oz., 40c; pkt., 15c.
- 423 ROSE BEAUTY.** The color is a charming rose-pink and makes a most brilliant show both individually and when the plants are massed together in beds. 1/16 oz., 50c; pkt., 15c.
- 424 ROSE MARIE.** A novel shade in this section, being a light salmon-rose with a golden center. A little dwarfier and more even in its habits than the others of this class. 1/16 oz., 40c; pkt., 15c.
- 425 ROSELLA.** For description, see Novelty page 30. Pkt., 25c.
- 426 SUNSET.** A bright terra-cotta shading gradually into a rosy salmon. Viewed from the distance the general effect is rich salmon-red. 1/16 oz., 40c; pkt., 15c.
- 427 TWILIGHT.** A delicate apricot with an old gold center and salmon shadings. The general color effect is a rosy salmon. It exhibits the wonderful characteristics of the Majestic type; namely, giant blooms, compact habit and sturdy growth. 1/16 oz., 40c; pkt., 15c.
- 428 MIXED.** A splendid mixture of the above named varieties. 1/16 oz., 40c; pkt., 15c.



Antirrhinum, Rose Marie.



Antirrhinum, Dwarf Rock Hybrids.



Brachycome. See page 38.

Tall Giant Varieties

Bearing large spikes of enormous flowers in many brilliant colors. Our strain is extra choice.

- 429 APPLE BLOSSOM.** A delicate apple-blossom-pink with a touch of light yellow in the lip. 1/8 oz., 40c; pkt., 10c.
- 430 CANARY BIRD.** Canary-yellow. 1/8 oz., 40c; pkt., 10c.
- 431 INDIAN SUMMER.** Velvety copper-scarlet. 1/8 oz., 40c; pkt., 10c.
- 432 OLD GOLD.** Deep golden yellow. 1/8 oz., 40c; pkt., 10c.
- 433 SNOW FLAKE.** White with light yellow lip. 1/8 oz., 40c; pkt., 10c.
- 434 THE ROSE.** Rose-pink. 1/8 oz., 40c; pkt., 10c.
- 435 FINEST MIXED.** All colors. 1/8 oz., 30c; pkt., 10c.

Five Majestic Snapdragons

This collection contains one packet each: Delight, Orange King, Red Chief, Sunset and Twilight. (Value 75c) for 50c.

Dwarf Snapdragons

- ®436 **DWARF ROCK HYBRIDS.** Charming small compact plants with flowers in many different colors. Suitable for rock-garden planting. 1/16 oz., 40c; 1/8 oz., 60c; pkt., 15c.

Tom Thumb Varieties

- Suited for edging beds, and pot plants.
- 437 DWARF, MIXED.** This dwarf type of Snapdragon grows about 8 inches tall. The fine stocky plants are covered with heavy spikes representing many showy colors. Excellent for small beds and for edgings. 1/8 oz., 25c; Pkt., 10c.

Asters

New Types and Wilt-Resistant Strains

Asters are the glory of our gardens in August and September, just when good flowers for cutting and garden display are wanted. To cut Asters abundantly as long as possible, several sowings should be made of the early and late flowering types. To succeed with Asters, sow the seed in flats in the house or hotbed in March. Transplant the seedlings two inches apart in boxes, and when they are large enough to handle, move to permanent beds in May. Make the second sowing in the cold frame the latter part of April, and the third sowing in the open ground about May. Set the plants of the early varieties ten inches apart, and of the later varieties eighteen inches apart. The richer the ground, the better your flowers will be, and water is very necessary.

New Super Giants

439 LOS ANGELES. The first variety of this giant race. The color is a serenely pure shell pink, flowers are full-petalled, deep and unusually large, yet artistically graceful in the feathery effect of the interlacing petals. In the annual border, or cut flower bed in the garden, they stand above their fellow Asters and show up to best advantage when combined with a planting of the Blue Lace Flower, *Didiscus*. **Pkt., 25c.**

Giant Mammoth Peony-Flowered

The flowers are immense, very double, borne on long stout stems, free from laterals. Splendid for cutting as they keep longer than any other variety.

- 440 AZURE FAIRY.** Clear azure blue. **Pkt., 15c.**
441 MAIDENS BLUSH. Delicate flesh. **Pkt., 15c.**
442 PEACH BLOSSOM. **Pkt., 15c.**
443 ROSEBUD. For complete description, see Novelty page 30. **Pkt., 20c.**
444 SILVERY ROSE. For complete description, see Novelty page 30. **Pkt., 20c.**
445 SWANSDOWN. Pure white. **Pkt., 15c.**
446 FINEST MIXED COLORS. **Pkt., 15c.**

New Giant California Sunshine

447 FINEST MIXED COLORS. This lovely Aster has been rightly called the most beautiful Aster in the world. The flowers are large, 4 to 5 inches across, in shades of pink, apple blossom, deep rose, blue and lavender, contrasting with the light yellow or blue centers. The outer petals are somewhat loosely placed, giving an airy, lace-like effect which is altogether charming. This strain is not yet entirely fixed as to type. About 60% to 65% will be true. It should be borne in mind that the true type is the last to flower. **Pkt., 15c.**

California Giant Asters

A new variety of the Crego type, with the robust habit of growth and long stems of the Beauty type. The flowers are much larger and more substantial than the Improved Crego. They measure 5 to 6 inches in diameter and stand up well when shipped as cut flowers. Their immense size and beauty, as well as their long and sturdy stems, make them very attractive.

- 448 WHITE.** $\frac{1}{8}$ oz., 50c; pkt., 15c.
449 PEACH BLOSSOM. $\frac{1}{8}$ oz., 50c; pkt., 15c.
450 LIGHT BLUE. $\frac{1}{8}$ oz., 50c; pkt., 15c.
451 DEEP ROSE. $\frac{1}{8}$ oz., 50c; pkt., 15c.
452 DARK PURPLE. $\frac{1}{8}$ oz., 50c; pkt., 15c.
453 MIXED COLORS. $\frac{1}{8}$ oz., 40c; pkt., 15c.
2453 COLLECTION. One pkt. each, above 5 colors, 60c.

Early Royal Asters

An early, large-blooming type of Aster with elegant rounded double flowers carried on very long stems. The plant branches near the ground, which insures long flower-stems for cutting.

- 454 AZURE BLUE.** $\frac{1}{8}$ oz., 35c; pkt., 10c.
455 PURPLE. $\frac{1}{8}$ oz., 35c; pkt., 10c.
456 DEEP ROSE. $\frac{1}{8}$ oz., 35c; pkt., 10c.
457 SHELL PINK. $\frac{1}{8}$ oz., 35c; pkt., 10c.
458 WHITE. $\frac{1}{8}$ oz., 35c; pkt., 10c.
459 FINEST MIXED. $\frac{1}{8}$ oz., 30c; pkt., 10c.
2459 ROYAL COLLECTION. One pkt. each of the above 5 varieties, 40c.

BALSAM - Lady's Slipper

An old-fashioned flower which is generally popular in all gardens. It bears flowers of various shades, white, pink, red, yellow, purple, etc., some of which are beautifully striped and spotted. Hardy annual.

- 475 DOUBLE MIXED.** $\frac{1}{4}$ oz., 25c; pkt., 10c.
BALSAM PEAR OR APPLE. See page 62.
BACHELOR'S BUTTON. See *Centaurea*.
BLACK-EYED SUSAN. (*Thunbergia*). See page 63.



Aster, Peony-Flowered.

Wilt-Resistant Asters

Wilt-resistant Asters will successfully solve your past difficulty in growing these beautiful fall flowers. Many gardeners have had to abandon all attempt to grow Asters because of wilt. No practical wilt control has yet been discovered. The following highly resistant strains have been developed from plants which through several years of production under severe wilt conditions, have survived untouched. The resultant seed now makes possible perfect fall displays of this popular Annual.

Wilt-Resistant Early Royal Asters

- 460 AZURE BLUE.** $\frac{1}{8}$ oz., 50c; pkt., 15c.
461 DEEP ROSE. $\frac{1}{8}$ oz., 50c; pkt., 15c.
462 PEACH BLOSSOM. $\frac{1}{8}$ oz., 50c; pkt., 15c.
463 PURPLE. $\frac{1}{8}$ oz., 50c; pkt., 15c.
464 WHITE. $\frac{1}{8}$ oz., 50c; pkt., 15c.
465 FINEST MIXED. $\frac{1}{8}$ oz., 40c; pkt., 15c.

Wilt-Resistant Crego Asters

- 466 CATTLEYA.** $\frac{1}{8}$ oz., 50c; pkt., 15c.
467 CRIMSON. $\frac{1}{8}$ oz., 50c; pkt., 15c.
468 DEEP ROSE. $\frac{1}{8}$ oz., 50c; pkt., 15c.
469 PEACH BLOSSOM. $\frac{1}{8}$ oz., 50c; pkt., 15c.
470 PINK. $\frac{1}{8}$ oz., 50c; pkt., 15c.
471 PURPLE. $\frac{1}{8}$ oz., 50c; pkt., 15c.
472 WHITE. $\frac{1}{8}$ oz., 50c; pkt., 15c.
473 FINEST MIXED. $\frac{1}{8}$ oz., 40c; pkt., 15c.

Wilt-Resistant Ball's White

474 BALL'S WHITE. A pure white Aster of branching habit and a great favorite as a cut flower. $\frac{1}{16}$ oz., 35c; pkt., 15c. Perennial Asters see page 53.



Aster, Giant California Sunshine.



Calendula, Radio Golden Beam.

CANDYTUFT for Mass Planting

Showy branching plant fine for edgings, bedding, massing, rockeries or for cutting. For early blooms, sow seed inside in March, making successive sowings outdoors any time from May to July. They thrive in rich soil and should be watered freely.

Hyacinth-Flowered Types

®492 **Miniature Gem.** For description see Novelty page 31. Pkt., 15c.

493 **GIANT HYACINTH-FLOWERED or IMPROVED EMPRESS.** A wonderfully improved strain of the popular Empress Candytuft, forming much branched plants about 18 inches high. Make a very effective white bed or border and is invaluable for cutting. ¼ oz., 25c; oz., 60c; pkt., 10c.

Umbellata Types

Umbellata sorts grow about one foot high, with flowers in umbrella form.

494 **ROSE CARDINAL.** Bright carmine-rose. ¼ oz., 25c; pkt., 10c.

495 **FLESH-PINK.** Light pink. ¼ oz., 25c; pkt., 10c.

496 **CRIMSON.** Rich deep shade. ¼ oz., 25c; pkt., 10c.

497 **LAVENDER.** Delicate shade of rosy lavender. ¼ oz., 25c; pkt., 10c.

498 **FINEST MIXED.** Comprising all colors and shades. ½ oz., 25c; oz., 40c; pkt., 10c.

PERENNIAL CANDYTUFT. See Iberis, page 57.



Calliopsis, Dazzler.

Brachycome - Swan River Daisy

478 **IBERIDIFOLIA.** Mixed. One of the daintiest and most charming little annual flowers imaginable and easy to grow in any soil. The flowers are borne on graceful stems well above the delicate, finely lacinated foliage. They are ideal for low beds and borders, as the plants grow to a height of only 8 to 10 inches. ⅛ oz., 25c; pkt., 10c.

Calendula - Pot Marigold

Easily raised, flower quickly from seed, and bloom without interruption until hard frost. Sow where they are wanted two to three seeds together, twelve inches apart, pull out the weakest ones, and leave but one plant to grow; or start the seed in the hotbed in March or April and transplant outdoors in May. Frequently used for winter blooming under glass. Height 12 to 18 inches.

479 **APRICOT QUEEN.** See Novelty page 31. Pkt., 20c.

480 **CHRYSANTHA OR SUNSHINE.** For description see Novelty page 31. Pkt., 15c.

481 **DOUBLE ART SHADES.** For description see Novelty page 30c. Pkt., 15c.

482 **RADIO GOLDEN BEAM.** An English variety of merit. The petals are beautifully quilled and fluted, which enhances the beauty of the golden yellow globular flowers. It harmonizes with almost any color. ¼ oz., 35c; pkt., 15c.

483 **CAMPFIRE.** (Sensation). Extremely large flowers; carried on long stout stems. The color is a brilliant orange with a scarlet sheen and a full yellow center. ¼ oz., 35c; Pkt., 15c.

484 **BALL'S ORANGE.** Bright orange flowers, very large, with long stems, uniformly double. A great favorite on the cut-flower market. ¼ oz., 35c; pkt., 15c.

485 **ORANGE KING.** Beautiful rich orange. Full double flowers, borne abundantly throughout the season. Oz., 25c; pkt., 10c.

486 **LEMON QUEEN.** Beautifully imbricated, very large double flowers. Petals light yellow, edges orange. Good for beds, borders and backgrounds. Height, 2 feet. Pkt., 10c; oz., 25c.

487 **MIXED.** All sorts, mixed. Oz., 25c; pkt., 10c.

Gay Calliopsis

One of the best annuals for beds or borders, producing attractive and graceful flowers on long stems which are most effective and artistic for decoration. They commence blooming early and continue in profusion until early fall. Seeds are usually sown outdoors where they are to bloom but they can be sown inside and transplanted if desired.

488 **DAZZLER.** Grows about 12 inches high, a little taller than Tom Thumb Beauty, but with a better habit and with blooms quite twice the size. These completely cover the plant and display a rich maroon-red center, with broad golden yellow border, forming a splendid sheet of color which attracts the eye from a considerable distance. We can strongly recommend this variety for summer bedding. Pkt., 15c.

489 **THE SULTAN.** A splendid new sort with flowers as large as those of Dazzler, but of a rich maroon-crimson. For bedding it is greatly in advance of its class, the blooms being nearly twice the size and of a brighter tint of color. A trial will quickly prove its superiority for bedding purposes over all other of the deeper colored varieties of Calliopsis. Pkt., 15c.

490 **DWARF VARIETIES.** Mixed. Valuable for small mixed beds and borders. ¼ oz., 25c; pkt., 10c.

491 **TALL MIXED.** A splendid mixture comprising many varieties and a great range of colors. ¼ oz., 25c; pkt., 10c.

COREOPSIS. (Perennial Calliopsis). See page 54.

CALIFORNIA POPPY. See Eschscholtzia.

CAMPANULA. (Canterbury Bells). See page 54.

Canna - Indian Shot

Cannas can be successfully grown from seed if planted early. Pour boiling hot water over the seeds, soak for 24 hours. Plant in sand ¼ to ½ inch deep. The seed will germinate in two to four weeks.

499 **MIXTURE OF NEWEST NAMED VARIETIES.** Pkt., 15c.

New Annual Canterbury Bells

Bring Spring to the Garden in September

Annual Canterbury Bells will flower in less than six months from seed, will grow two and one-half feet tall, producing six to eight flowering spikes to the plant.

500 **LIBERTY BELL.** For description see Novelty page 31. Pkt., 25c.

501 **ANGELUS BELL.** For description see Novelty page 31. Pkt., 25c.

502 **MIXED COLORS.** Pkt., 20c.

Carnations

503 **MARGUERITE.** A very early blooming sort which sometimes blooms in four months from sowing. Flowers are large, double, deeply fringed, very fragrant. Plants semi-dwarf, good for bedding and desirable for cutting. Annual. Finest mixed colors. ¼ oz., 25c; pkt., 10c.

Celosia Cristata Nana - Cockscomb

A free bloomer growing best in rather light, not too rich soil. Sow seed indoors in early spring and plant outdoors in May, or sow seed outdoors in May.

504 **GLASGOW PRIZE**. Dwarf crimson. Pkt., 10c.

505 **DWARF GOLDEN YELLOW**. Pkt., 10c.

Celosia Childsi - Chinese Woolflower

506 **MIXTURE**. A distinct type, with large, roundish heads and drooping spikelets of flowers which look like an immense ball of wool. All colors. Very showy. Pkt., 10c.

Centaurea

This popular annual includes such old fashioned favorites as the Bachelor's Button or Cornflowers, and Sweet Sultans. They are easy to grow, take care of themselves, bloom continuously, and even come up again the next year from seed that has dropped to the ground. Sow outdoors in April, thin plants to stand ten inches apart, or you may sow seed from September to November for early bloom the following spring.

Centaurea Cyanus - Cornflower

These are also known as Bachelor's Button, Blue Bottle, Ragged Sailor, Bluet and sometimes as Ragged Robin, but which name belongs to one of the Lychnis and frequently results in confusion. It is always best to order by the botanical names. They are well known to every flower lover and always included in old-fashioned gardens. We have discarded the old single-flowering type, the improved double-flowering sorts offered below being much better in every way.

507 **DOUBLE BLUE**. $\frac{1}{4}$ oz., 25c; pkt., 10c.

508 **DOUBLE PINK**. $\frac{1}{4}$ oz., 25c; pkt., 10c.

509 **DOUBLE MIXED**. $\frac{1}{4}$ oz., 20c; oz., 50c; pkt., 10c.

Centaurea Imperialis - Royal Sweet Sultan

510 **FINEST MIXED**. A wonderful annual for cutting, long-stemmed, exquisitely fringed and delightfully fragrant. 2 to 3 feet. May until frost. $\frac{1}{4}$ oz., 20c; pkt., 10c.

Chrysanthemum

511 **BRIDAL ROBE**. (Double). The plants grow about 12 inches high and are covered the entire summer with their beautiful snow-white double flowers. Pkt., 10c.

Clarkia

This pretty and easily grown annual has been much improved in recent years, and the mixture offered below is now seen as cut flowers in most of the large cities of Europe. They do well either in sun or shade, growing 2 to 2½ feet high, with leafy racemes of double flowers, which all open in water when cut.

512 **ELEGANS DOUBLE MIXED**. $\frac{1}{4}$ oz., 25c; pkt., 10c.

Coleus - Flame Nettle

A fine colored, tender perennial foliage plant for house or garden. Sow indoors in March.

513 **FINEST MIXED COLORS**. 3 pkts., 50c; pkt., 20c.

COLUMBINE. See Aquilegia, perennial, page 52.

Cosmos for Early Autumn Color

Graceful autumn flowers, fine for cutting and extremely showy in the garden. Very easily grown. They do best in rather poor soil.

Dwarf Early Flowering Types

514 **EARLY FLOWERED WHITE**. $\frac{1}{4}$ oz., 25c; pkt., 10c.

515 **EARLY FLOWERED CRIMSON**. $\frac{1}{4}$ oz., 25c; pkt., 10c.

516 **EARLY FLOWERED PINK**. $\frac{1}{4}$ oz., 25c; pkt., 10c.

517 **EARLY FLOWERED MIXED**. $\frac{1}{4}$ oz., 20c; pkt., 10c.

Tall Late Mammoth Flowering

518 **GIANT WHITE**. $\frac{1}{4}$ oz., 25c; pkt., 10c.

519 **GIANT CRIMSON**. $\frac{1}{4}$ oz., 25c; pkt., 10c.

520 **PINK LADY LENOX**. A beautiful shade of shell-pink, early blooming and very large flowers. $\frac{1}{4}$ oz., 25c; pkt., 10c.

521 **GIANT MIXED**. Comprises all shades. $\frac{1}{4}$ oz., 20c; pkt., 10c.

Double or Anemone-Flowered

522 **PINK BEAUTY**. $\frac{1}{4}$ oz., 50c; pkt., 10c.

523 **CRIMSON KING**. $\frac{1}{4}$ oz., 50c; pkt., 10c.

524 **WHITE QUEEN**. $\frac{1}{4}$ oz., 50c; pkt., 10c.

525 **SUPERB MIXED**. $\frac{1}{4}$ oz., 40c; pkt., 10c.

Cynoglossum - Chinese Forget-Me-Not

526 **AMABILE**. Blue. An annual recently introduced from China; of the easiest culture, forming strong plants 18 to 24 inches high and producing through the summer months sprays of intense blue forget-me-not-like flowers, delicately sweet scented. A splendid addition to the comparatively short list of real blue flowers. $\frac{1}{4}$ oz., 30c; pkt., 10c.

527 **AMABILE PINK**. $\frac{1}{8}$ oz., 40c; pkt., 15c.

CALIFORNIA POPPY. See Eschscholtzia. Page 40.

CARDINAL CLIMBER. See Vines. Page 63.



Annual Canterbury Bells.

Grow Dahlias from Seed

While usually grown from roots and cuttings, fine flowers can be produced in one season from seed, if it is sown early indoors and the plants set out when the ground is warm.

528 **COLTNESS HYBRIDS**. A splendid new type of Dahlia, producing single flowers on long stems. Plants compact, 18 to 24 inches high, bearing a mass of bloom throughout the entire season. Pkt., 20c.

529 **CACTUS FLOWERED**. Collected from named varieties. Pkt., 20c; 3 pkts., 50c.

530 **DECORATIVE FLOWERED**. Collected from named varieties. Pkt., 20c; 3 pkts., 50c.

FOR DAHLIA ROOTS. (See Summer Flowering bulbs.)

Dianthus - Annual Garden Pinks

Every garden should include some of the pinks because they are so easily grown and make such a wonderful display with their bright colored flowers. The plants are covered with sweet-scented flowers all during the summer. Grows about 1 foot high.

531 **SWEET WIVELSFIELD**. This remarkable hybrid is quite distinct in method of flowering and height of growth from the Annual Sweet William. It has a great variety of color and a very long season of bloom. It is an annual and requires the same culture as Asters, Stocks and Snapdragons. Sown in a hotbed in February and March, and then into the open ground early in May, it will bloom from June until frost. If sown outdoors in April, it will bloom in August. Pkt., 15c.

532 **HEDDEWIGI**. (Single Japan Pink). A splendid mixture of single flowers of brilliant shades, brilliantly marked. Plants dwarf and very free flowering. $\frac{1}{4}$ oz., 25c; pkt., 10c.

533 **HEDDEWIGI, FL. PL.** (Double Japan Pink). Very double, with deep fringed petals. Colors vary from white to rose, lilac, carmine, crimson, scarlet, purple, brown and almost black, spotted and striped. Pkt., 10c; $\frac{1}{4}$ oz., 30c.

For perennial varieties, see page 54.



Dimorphotheca (African Daisy).

Four O'clock - Marvel of Peru

Old-fashioned flowers which are borne on erect, bushy plants, 2 to 3 feet high. Flowers are large, tube-shaped, opening in the afternoon and remaining open all night, and close again in the morning. Very desirable for borders and backgrounds for lower growing plants. Hardy annual.

552 MIXED. Comprises all shades. Pkt., 10c; oz., 25c.

FORGET-ME-NOT. See Myosotis, page 42.

FOXGLOVE. See Digitalis, page 55.

Gaillardia - Blanket Flower

553 INDIAN CHIEF. A superb variety. Dark mahogany-red flowers. Practically 100 per cent true. A marvel for continuous bloom, remaining in flower from June until October. Pkt., 15c.

PERENNIAL GAILLARDIA. See page 56.

Geranium - Pelargonium

The heads of gorgeous flowers, of many shades of color, borne continuously, render this one of the most popular plants grown, either for pot culture in winter or for bedding out in summer. Tender perennial.

554 SINGLE LARGE FLOWERING. Mixed. Pkt., 15c.

Gilia - Queen Anne's Thimble

555 CAPITATA. This is a very graceful annual, growing about 2 feet high with fine feathery foliage and bearing freely over a long season, globular heads, about 1 inch across, of rich lavender-blue flowers, which last well when cut. Pkt., 10c; ¼ oz., 25c.



Eschscholtzia (California Poppy).

Didiscus - Blue Lace Flower

534 COERULEUS. Superb for cut flowers. The long slender stems terminate in flat clusters of delicate blue flowers not unlike Queen Anne's Lace. ½ oz., 30c; pkt., 10c.

DIGITALIS. See perennial. Page 55.

DELPHINIUM ANNUAL. See Larkspur. Page 41.

DELPHINIUM PERENNIAL. See page 55.

Dimorphotheca

New African Golden Daisies

Most of us know the African Daisies, sometimes called the Star of the Veldt, and have admired their bright blossoms which appear in daisy-like form two to three inches across. A showy effect is obtained by using mixed colors of African Daisies, and the dark shades of Bedding Petunias, sowing the seed broadcast or setting out the plants informally, giving the appearance of being broadcast. Delights in a sunny situation.

535 CALENDULACEA LEMON QUEEN. For description see Novelty page 31. Pkt., 20c.

536 DOUBLE RINGENS. Grayish-blue with double crested center. Pkt., 15c.

537 ECKLONIS. Forms a strong compact plant with star-shaped flowers. Color pure white, with a deep blue disc. Excellent for cutting. Height 12 to 18 inches. Pkt., 15c.

538 GOLDEN WEST. Bright buttercup-yellow flowers. Pkt., 15c.

539 SALMON BEAUTY. A large flowering African Daisy of a pleasing true salmon shade, a welcome color addition to this popular flower group. ½ oz., 40c; pkt., 10c.

540 AURANTIACA. Golden-orange, with dark center. ½ oz., 25c; pkt., 10c.

541 MIXED COLORS. Varying in colors of white, yellow, salmon and orange. ½ oz., 35c; pkt., 10c.

Daisies

BLUE-EYED AFRICAN DAISY. See Arctotis, page 35.

ENGLISH DAISY. See Bellis Perennis. Perennial page 53.

GOLDEN AFRICAN DAISY. Dimorphotheca.

SHASTA DAISY. See Chrysanthemum. Perennial page 54.

MARGUERITE DAISY. See Anthemis. Perennial page 52.

MICHAELMAS DAISY. See Perennial Asters, page 53.

TRANSVAAL DAISY. See Gerbera. Perennial page 56.

Eschscholtzia - California Poppy

Easily grown from seed sown outdoors where they are to grow as they cannot be transplanted. They succeed everywhere, are always in bloom, brighten the garden from June until frost. Autumn sowing outdoors will give you early spring flowers.

542 SALMON BEAUTY. Beautiful double salmon, not variable.

This novelty introduced for the first time this year, is salmon both inside and out. Very distinct. Pkt., 15c.

543 RAMONA. Frilled golden bronze, coppery rose outside. ¼ oz., 30c; 1 oz., 90c; pkt., 10c.

544 SCARLET BEAUTY. Deep scarlet. ¼ oz., 30c; pkt., 10c.

545 GOLDEN WEST. A very large, bright yellow sort with deep orange at the base of petals. Oz., 30c; pkt., 10c.

546 DOUBLE AND SEMI-DOUBLE VARIETIES. Mixed. ¼ oz., 35c; pkt., 10c.

547 SINGLE VARIETIES. Mixed. Oz., 30c; pkt., 10c.

Erigeron

548 DIVERGENS. This very pretty annual species forms neat, freely branching shapely bushes 12 to 18 inches high, which are thickly strewn with small white lavender-shaded flowers about ¾-inch across, showing up well against the light grey-green foliage. It is of great value for planting in clumps in the annual border. It may be sown in the open, or under glass if very early flowering is desired. Pkt., 20c.

EDELWEISS. See Leontopodium. Perennial list, page 57.

Euphorbia

Strong-growing annuals, suitable for beds of tall-growing plants or mixed borders. The foliage is exceedingly ornamental. Sow outdoors in April.

549 HETEROPHYLLA. (Annual Poinsettia; Mexican Fire-Plant). An annual, bushy plant, with highly ornamental leaves, which in summer and autumn become dark fiery scarlet. Height 2 to 3 feet. ¼ oz., 35c; pkt., 15c.

550 VARIEGATA. (Snow-on-the-Mountain). Elegant, bushy plants, with broad green leaves, veined and margined with white. Attractive foliage. Height 2 feet. ¼ oz., 25c; pkt., 10c.

Feverfew - Matricaria

551 DOUBLE WHITE. Hardy annual, free-flowering. For bedding or pot culture. Showy double white flowers, 18 inches. Pkt., 10c.

Godetia - Satin Flower

Attractive, hardy annuals, deserving more extensive cultivation, especially in the cooler parts of the country. The plants bloom profusely, and bear showy flowers, not unlike an Azalea, of satiny texture in many rich and varied colors. They do best in a rather poor soil, 1 foot.

556 SPECIAL MIXTURE SINGLE AND DOUBLE VARIETIES. $\frac{1}{4}$ oz., 25c; pkt., 10c.

Gypsophila - Baby's Breath

Quick-growing, producing great numbers of small flowers in loose, graceful sprays. Valuable for cutting; fine for mixing with other flowers. Blooms quickly from seed and liberal sowings should be made every three weeks from April to July to cut continuously. For early spring flowers sow previous autumn.

557 ELEGANS ALBA. (True Covent Garden Strain). A grand improvement, flowers large and pure white. **Oz., 25c; 4 oz., 85c; pkt., 10c.**

558 ELEGANS DELICATE PINK. Pretty blush-pink form of the above and equally valuable for cutting. **Oz., 25c; pkt., 10c.**

559 MURALIS. Dwarf hardy annual with rose-colored flowers, suitable for rock work. Height, 9 inches. $\frac{1}{4}$ oz., 25c; pkt., 10c.

FOR PERENNIAL GYPSOPHILA. See page 56.

Helichrysum - Strawflower

For Winter Bouquets

A Strawflower of the easiest culture; one of our best "Ever-lasting" flowers, the dried double bloom being very handsome in winter bouquets. 2 feet.

560 MIXED. $\frac{1}{4}$ oz., 25c; pkt., 10c.

Heliophila

561 LEPTOPHYLLA. Excellent annual, both for growing in pots and for border. Flowers bright blue, intensified towards center with white eye. This fine new species is very floriferous. For border should be planted 9 to 12 inches apart. **Pkt., 25c.**

Heliotrope

562 LARGE FLOWERED HYBRIDS. A mammoth flowering variety having enormous quantities of flowers and trusses sometimes measuring 10 to 12 inches across. Very fragrant. Colors vary from pure white through the various shades of blue and purple to indigo. **2 pkts., 25c; pkt., 15c.**

Larkspur - Annual Delphinium

Tall showy plants that bloom freely during the summer months. They are very gay and especially useful for massed bedding and cutting. Blooms quickly from seed.

Giant Imperial Larkspur

A new type of Annual Larkspur, developed in California. These Larkspurs are ideal for cut flowers, as the flower stems, three to four feet long, branch from the base of the plant. (See illustration.)

567 BLUE BELL. Medium blue. For complete description see Novelty page 31. **Pkt., 15c.**

568 LOS ANGELES IMPROVED. This is the same color as that popular Stock-flowered variety, Los Angeles, but in the vastly improved Giant Imperial type. It is the best of this type. For greenhouse use, or where a tall compact growing strain is wanted in the garden, this variety is preferable. Spikes long and without side branches, making it excellent for cutting. Color brilliant rose on salmon. **Pkt., 15c.**

569 BLUE SPIRE. Intense deep Oxford blue. $\frac{1}{8}$ oz., 35c; pkt., 10c.

570 CARMINE KING. Deep carmine-rose. $\frac{1}{8}$ oz., 35c; pkt., 10c.

571 DAINTINESS. Delicate lavender. $\frac{1}{8}$ oz., 35c; pkt., 10c.

572 EXQUISITE PINK IMPROVED. Soft pink shaded salmon. $\frac{1}{8}$ oz., 35c; pkt., 10c.

573 GLORIA. A rich tone of deep rose with no trace of carmine. $\frac{1}{8}$ oz., 35c; pkt., 10c.

574 LILAC SPIRE. Beautiful blue color. $\frac{1}{8}$ oz., 35c; pkt., 10c.

575 PEACH BLOSSOM. A very delicate clear tone of light pink with no trace of salmon. $\frac{1}{8}$ oz., 35c; pkt., 10c.

576 WHITE SPIRE. A dazzling pure white. $\frac{1}{8}$ oz., 35c; pkt., 10c.

577 IMPERIAL MIXTURE. A mixture of the above named varieties. $\frac{1}{8}$ oz., 25c; pkt., 10c.

PERENNIAL LARKSPUR See Delphinium. Page 55.



Giant Imperial Larkspur.

Hunnemannia

(Santa Barbara Poppy; Bush Eschscholtzia; Yellow Tulip Poppy)

563 SUNLITE. This is a double-flowered Poppy which is different. Its extra band of petals is produced on the outside, rather than the inside of the tulip-shaped flowers, giving the impression of being open even after the cuplike blossoms have closed for the night. Flowers bright canary-yellow, and the foliage of the two-foot bush is light grey-green. They like a sunny position in well-drained soil and flower freely in late summer. **Pkt., 15c.**

564 FUMARIAEFOLIA. Finely cut, glaucous foliage like the California Poppy. Produces large, clear, brilliant yellow, tulip-shaped flowers on long, stiff stems from July until frost. Sow seed early in May where plants are to bloom. Hardy annual. Height, 2 feet. $\frac{1}{4}$ oz., 25c; oz., 75c; pkt., 10c.

Kochia - Mexican Fire Bush

565 CHILDSI. A quick growing foliage or hedge plant which forms symmetrical globe-shaped plants about 3 feet high. The foliage is cypress-like in appearance, being finely cut, clear green color. Early in the fall it is covered with innumerable little flowers which cause the plant to take on a reddish tinge, hence the name of Fire Bush. Seed can be started early indoors and transplanted, or sown in open border and transplanted or thinned out. Annual. **Oz., 35c; pkt., 10c.**

Lantana

Half-hardy greenhouse or bedding plants constantly in bloom, bearing miniature verbena-like heads of orange, white and rose. Start seed indoors early.

566 DWARF BEDDING HYBRIDS. Fine for bedding and pot culture. Will bloom freely all summer. $\frac{1}{4}$ oz., 30c; pkt., 10c.

COLLECTION OFFER

2577 GIANT IMPERIAL LARKSPURS. One packet each of Blue Spire, Carmine King, Daintiness, Exquisite Pink, Gloria, Peach Blossom and White Spire. **Seven 10c pkts., 50c.**



African Marigold.

Mesembryanthemum Livingstone Daisy

®594 **CRINIFLORUM**. This variety is absolutely hardy and one of the most easily grown annuals. The plants which are of slightly spreading habit, are literally covered with flowers, measuring about one inch, of the most delightful shades imaginable. There are pure whites tinted and edged with rose, crimson, pink and buff, and self colors including primrose, golden, buff, apricot, crimson and pink. An ideal carpet or rockery plant and a gem for edging. Will succeed admirably in crevices of walks or old walls and thrives well in poor soil. **Pkt., 25c.**

CRYSTALLINUM. Commonly called Ice Plant. See Vines, page 63.

Myosotis - Forget-Me-Not

The following varieties of Myosotis are biennial, but are best treated as annuals, as they will bloom the first year from seed. For early spring flowers, sow seed in August. Protect the plants or winter them over in a cold frame like Pansies, or seed may be sown in a hotbed or cold frame in the spring and they will commence blooming in July. A cool, half shady place is suitable.

596 **ALPESTRIS, BLUE EYES**. Very early, bright blue, compact habit. **Pkt., 15c.**

597 **ALPESTRIS, ROSE**. This is a lovely shade of bright rose, a rather unusual color. $\frac{1}{8}$ oz., 25c; **pkt., 10c.**

598 **DISSITIFLORA**. Large-flowered early strain. The most valuable to form a groundwork for spring bulbs. Deep blue. Height, 9 inches. $\frac{1}{8}$ oz., 65c; **pkt., 15c.**

Hunnemannia (Yellow Tulip Poppy).
(See page 41).

Marigolds for Color

A very popular old-fashioned garden annual which is remarkable for its brilliant display of yellow and orange flowers which are borne in greatest profusion from early summer till frost. The African varieties are tall, usually 2 to 3 feet high and well adapted for large beds, backgrounds or mixed borders. The French are more dwarf and can be used for borders and bedding. All varieties have finely cut, bright green foliage.

African Varieties

583 **GUINEA GOLD**. This is a very distinct type of Marigold, of graceful pyramidal habit, growing 2 to 2½ feet high, and producing 30 to 40 flowers, 2 to 2½ inches across, of a brilliant shade of orange flushed with gold. Unlike the ordinary African Marigold, this new variety produces no single flowers, but practically 100% semi-double. The characteristic Marigold odor, too, is much less pungent than in other sorts. $\frac{1}{8}$ oz., 35c; **pkt., 15c.**

584 **GOLDEN BEAUTY**. A new color in African Marigolds, being a soft, pure golden yellow. Golden Beauty is to be preferred to either the Lemon or Orange varieties hitherto available. It has semi-quilled petals and is intensely double. Height, 3 feet. **Pkt., 20c.**

585 **YELLOW BEAUTY**. A counterpart of Golden Beauty except that the color is a very beautiful clear light yellow. Very double. Height 3 feet. **Pkt., 20c.**

586 **PRINCE OF ORANGE**. Flowers about 3 inches in diameter, imbricated and extremely double, in tints of primrose, orange and gold. Grows 2 to 3 feet high. $\frac{1}{4}$ oz., 25c; **pkt., 10c.**

587 **LEMON QUEEN**. Profuse bloomers, one of the best of the class. Desirable for shrubbery or mixed borders. $\frac{1}{4}$ oz., 25c; **pkt., 10c.**

588 **AFRICAN DOUBLE MIXED**. Comprises various shades and well adapted for large beds or mixed borders. $\frac{1}{4}$ oz., 20c; **pkt., 10c.**

The Queen Strains of Marigolds Large Flowered Dwarf African Type

This new strain of African Marigolds will rapidly find favor for bedding. The plants are sturdy and when well grown form perfect pyramids, each carrying as many as 30 to 40 flowers fully open at the same time. The large blooms, measuring as much as 3 inches across, have flattish petals which take away from the plant that coarseness sometimes associated with African Marigolds. The following varieties will produce at least 90% of double flowers. Height 18 inches.

589 **PRIMROSE QUEEN**. **Pkt., 20c.**

590 **YELLOW QUEEN**. **Pkt., 20c.**

591 **GOLDEN QUEEN**. **Pkt., 20c.**

French Varieties

592 **FRENCH DOUBLE MIXED**. Comprising all shades of yellow, orange, brown, striped, etc. Very double. Height, 1 foot to 18 inches. $\frac{1}{4}$ oz., 25c; **pkt., 10c.**

®593 **LEGION OF HONOR**. (Little Brownie). A single flowering Marigold, forming compact bushes 9 inches high. Begins flowering early, commencing in June, continuing until frost. The flowers are golden-yellow, marked with a large spot of velvety crimson at the base of each petal. $\frac{1}{4}$ oz., 25c; **pkt., 10c.**

POT MARIGOLD. See Calendula. Page 38.

PIGMY MARIGOLD. See Tagetes. Page 48.

Lupinus - Lupine

Quick-growing annuals, with woolly foliage and stems, having erect spikes of pea-shaped flowers. Excellent for cutting.

581 **TALL ANNUAL VARIETIES MIXED**. 1 oz., 35c; **pkt., 10c.**

582 **TEXAS BLUE BONNET**. The flowers are of delightful blue, with distinct heart-shaped eye of deep rosy flesh. Charming bushy plants. Height 15 inches. 1 oz., 35c; **pkt., 10c.**
See also Perennial varieties. Page 58.

Linum - Flax

578 **GRANDIFLORUM RUBRUM**. (Scarlet Flax). One of the most effective and showy bedding plants, of long duration, having fine foliage and delicate stems, with brilliant scarlet-crimson flowers. Hardy annual. 1 foot. **Pkt., 10c.**

PERENNIAL FLAX. See page 58.

Lobelia

579 **BLUE GOWN**. An excellent new variety, with clear deep blue flowers without eye, and foliage of a bright medium green. Being extremely free-flowering and of a very fine compact habit, it will be found most effective for small beds and edgings. **Pkt., 20c.**

580 **CRYSTAL PALACE COMPACTA**. Rich deep blue; dark foliage. Height 4 to 6 inches. $\frac{1}{8}$ oz., 40c; **pkt., 10c.**

Mignonette - Reseda

Its sweet, delicate fragrance makes this a favorite annual in every garden. Sow in May in the borders or any sunny spot where plants are to remain. It is also grown in pots for winter and early spring flowering. Mignonette prefers a medium light, loamy soil, with only a moderate amount of moisture.

595 ALLEN'S DEFIANCE. Silvery white, robust and free flowering, spikes 10 to 12 inches long. $\frac{1}{4}$ oz., 30c; pkt., 10c.

MORNING GLORY. See Vines. Page 63.

MOON VINE. See Vines. Page 63.

Nasturtium

One of the most popular of tender annuals which is valuable alike for bedding, borders and cutting. Few plants are more easily grown or remain longer in bloom. Flowers are in many brilliant shades ranging from creamy white through rose, light pink and scarlet together with yellow, orange, brown, maroon, etc., and many flowers are brilliantly spotted. Blooms abundantly from early summer until late fall.

Seed is usually sown outdoors as soon as the weather is settled. If desired can be started in the house and transplanted.

A New Double Sweet Scented Nasturtium

599 GOLDEN GLEAM. The plant forms a vigorous, large bush which throws out short runners, averaging eighteen inches. The double flowers commence to come as soon as the plant nears complete development and at the time it is in full bloom, the entire plant, including the runners, is a blaze of color. The large, golden-yellow flowers average $2\frac{1}{2}$ to 3 inches across. They are borne on erect, stiff stems 6 inches in length. Consequently, the flowers stand well above the foliage, an arrangement which adds immeasurably to the showy appearance of the plant. Very fragrant. **Oz., 50c; pkt., 15c.**

Dwarf Nasturtiums

600 DWARF MIXED. Comprises all varieties and shades. **Oz., 15c; $\frac{1}{4}$ lb., 45c; lb., \$1.50; pkt., 10c.**

Tall Varieties

These are excellent for growing in beds and borders where there is plenty of room for trailing or for light trellises and for hanging baskets, vases and window boxes. Height, usually 4 to 5 feet.

601 TALL MIXED. Comprises all shades in splendid mixture. **Oz., 15c; $\frac{1}{4}$ lb., 45c; lb., \$1.50; pkt., 10c.**

Nemesia

602 STRUMOSA SUTTONI MIXED. Flowers are $\frac{1}{2}$ -inch across and are borne in great profusion. The color ranges from white through pale yellow and rose, to orange and crimson, with numerous intermediate shades and a great variety of throat markings. This South African plant is 1 foot high and blooms from June to September. Start seed indoors in March and set plants out in May. This is a bedding annual suited for shady locations and for pot culture. **Pkt., 15c.**

Giant Pansies

This popular annual is so well known that it needs little description. Pansies are easily grown and bloom profusely for many months. Sow the seed indoors early in March or outdoors as early as the ground can be prepared. If sown during August, and wintered over in a cold frame, the plants will begin blooming very early the following spring and continue their showy display throughout the summer.

607 ENGELMANN'S GIANTS. Dark and light shades, huge flowers, very compact and early flowering. For complete description see Novelty page 32. **Pkt., 75c.**

608 SWISS GIANTS. This strain of pansies is the most sensational novelty of many years. The seed we offer will produce flowers of gigantic size, perfectly round, and produce many new color combinations and shades previously unknown in pansies. Blooms early. **Pkt., 50c.**

609 OREGON GIANTS. A very fine mixture of giant types. **Pkt., 35c.**

610 TRIUMPH OF THE GIANTS. A rich mixture of bright colors with many delightful variations and markings. $\frac{1}{8}$ oz., \$1.00; **pkt., 25c.**

611 CHOICE BEDDING MIXED. Contains a complete range of colors. Blossoms slightly smaller than the giant types. $\frac{1}{8}$ oz., 30c; $\frac{1}{4}$ oz., 50c; **pkt., 10c.**

Giant Early Flowering Pansies

This remarkable new race of Pansies flowers four to six weeks earlier than the other varieties. The flowers are of immense size, on long stems. Excellent for greenhouse culture or early spring bedding.

612 SUPERB MIXED. $\frac{1}{8}$ oz., 30c; $\frac{1}{4}$ oz., 50c; **pkt., 15c.**

TUFTED PANSIES. See Viola. Page 61.



Pansy, Englemann's Giant.

Nemophila - California Blue Bell

603 INSIGNIS BLUE. (Baby Blue Eyes). Splendid trailing annual, 6 inches high, fine for edging borders, or rock gardens. Cup-shaped, sky-blue flowers from late spring until frost. $\frac{1}{4}$ oz., 25c; **pkt., 10c.**

Nicotiana

One of the easiest annuals to raise and one of the most effective. The blossoms in shape are not unlike a Petunia, but with a longer tube. The flowers open toward evening and emit a powerful perfume.

604 AFFINIS. Large, pure white flowers of delicious fragrance. If taken up in the fall, cut back and potted they will bloom all winter. $\frac{1}{4}$ oz., 25c; **pkt., 10c.**

605 SANDERAE HYBRIDS. A showy and profuse flowering, half-hardy annual, giving a continuous display of brilliant flowers through summer and autumn. The plant is of branching, bushy habit, 2 to 3 feet high, and carries the flowers in clusters. The flowers measure from 1 to 2 inches across and remain open all day. Many colors, mixed. $\frac{1}{4}$ oz., 25c; **pkt., 10c.**

Nigella - Love-in-a-Mist

606 MISS JEKYLL. Lovely variety giving an abundance of long-stemmed flowers which are of a clear cornflower blue, prettily set in slender elegant foliage. One of our most attractive annuals. The plants are extremely hardy, and an autumn sowing produces the best specimens for flowering in the following summer. Height, 18 inches. Hardy annual. **Pkt., 10c.**

Petunia

A very useful and free-flowering annual, thriving on any soil and in the hottest weather. For a showy bed, or for porch or window boxes, few plants equal the Petunia in effectiveness. Sow the seed in pots or flats in the house or hotbed in February or March, or in the garden as soon as the soil is warm. Cover the seed but slightly as it is very fine.

Large Single Flowering Varieties

- 613 SETTING SUN.** The result of a cross between *Petunia grandiflora fimbriata*, Brilliant Rose, and a dwarf variety. It comes true from seed and forms compact bushes 12 inches high, covered with beautifully fringed blossoms of a brilliant rose-pink, measuring 3 inches across. It is admirably suited both for growing in pots and for borders. **Pkt., 35c.**
- 614 GOTTFRIED MICHAELIS.** A worthy companion to the Dwarf Fringed Petunia, "Setting Sun," introduced last year. The compact bushes of about 12 inches in height are covered with daintily fringed and waved medium-sized flowers about 3 inches in diameter, of a brilliant amaranth red, deepening somewhat toward the center. This Petunia will be found of the greatest value for bedding purposes, as also for pots and window boxes. **Pkt., 35c.**
- 615 ELK'S PRIDE.** Immense flowers of rich deep Elk's purple, with large lobes forming a five-pointed star. The velvety black veins add much beauty. **Pkt., 25c.**
- 616 DIENER'S PINK GLORY.** Large, well-formed flowers of a most exquisite luminous pink, shaded with a contrasting white throat, and marked with creamy white veins. **Pkt., 35c.**
- 617 THEODOSIA.** Large, fringed, rosy pink flowers with a clearly defined golden center. **Pkt., 35c.**
- 618 DWARF GIANTS (Ramona Strain).** A dwarf, sturdy growing type, especially suited for pot culture. Flowers are beautifully ruffled and fringed with open well-marked throats. The mixture contains a good assortment of the most desirable dark and light shades which are well balanced. **Pkt., 50c.**
- 619 RUFFLED MONSTERS.** A half dwarf type of erect and robust habit. The flowers are very large and ruffled, with open shallow throats. The colors are mostly the desirable red and dark shades, richly marked and veined. **Pkt., 35c.**
- 620 WHITE CLOUD.** Pure white, very dwarf and compact. **Pkt., 25c.**

Double Flowering Varieties

- 621 DOUBLE FRINGED MIXED.** An excellent, carefully hand-pollinated strain, yielding a large percentage of plants having double, finely fringed flowers. Embraces a splendid variety of colors and many beautiful combinations. Double Petunia seed is extremely costly and more care should be used in growing it. The small, slow-growing seedlings with crumpled foliage, which should be carefully saved, are the ones that produce the best double blooms; the remainder carry choice large single flowers. **Pkt., 50c.**
- 622 DOUBLE ROSY MORN.** Medium sized flowers, semi-double with heavy petals folding back from the center, of a lovely rose color. **Pkt., 25c.**

Single Bedding Varieties

- 623 COCKATOO.** The plants attain a height of 8 inches and are round and compact. The flowers are a velvety deep violet-purple, with irregular sized white spots and stars which give to the plant and bed an extraordinary gay and vivid appearance. **Pkt., 20c.**
- 624 HEAVENLY BLUE.** Silvery light blue. **Pkt., 15c.**
- 625 ROSY MORN.** Soft carmine-pink with white throat; makes a very dainty and at the same time effective border. **1/16 oz., 25c; 1/8 oz., 50c; 1/4 oz., 90c; pkt., 10c.**
- 626 ROSE OF HEAVEN.** This would be our choice if the space available permitted the planting of only one variety of Petunia. It excels by its marvelous color—a brilliant crimson-rose of rare purity. **Pkt., 15c; 1/16 oz., 25c; 1/8 oz., 40c.**
- 627 GENERAL DODDS.** Velvety dark red, nearly black; a scarce color among Petunias. Dwarf, compact bushes. **Pkt., 15c; 2 pkts., 25c.**
- 628 HOWARD'S STAR.** This grand Petunia has flowers 2 to 2½ inches in diameter, of fine texture, with more or less veining. Ground color a crimson-maroon. In the center of each flower is a five-rayed star of light bluish pink or white. Height of plant, 1½ to 2 ft. **Pkt., 10c; 1/8 oz., 45c.**
- 629 CHOICE SINGLE MIXED.** A fair mixture of good coloring which bears moderately sized flowers and is extremely free flowering. **Pkt., 10c; 1/4 oz., 25c; oz., 75c.**



Petunia, Ruffled Monsters.

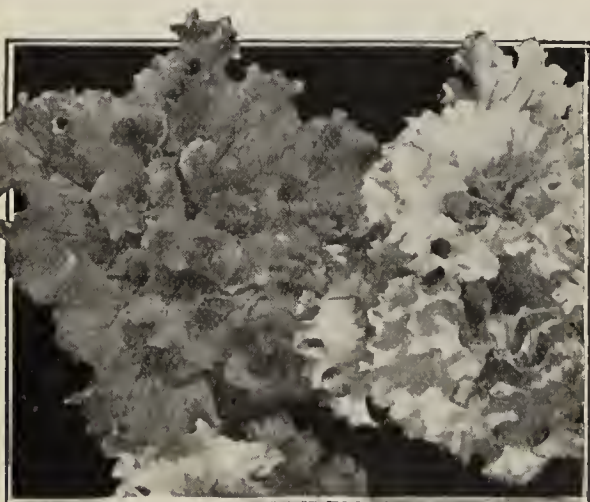
Balcony or Large-Flowered Varieties

A splendid large and free flowering type for window boxes, vases, hanging baskets, etc., the flowers average 3 inches across and make a very effective display over a long season.

- 630 BALCONY BLUE.** Velvety indigo blue. **Pkt., 15c; 2 pkts., 25c; 1/16 oz., 50c.**
- 631 BALCONY CRIMSON.** Rich velvety crimson. **Pkt., 15c; 2 pkts., 25c; 1/16 oz., 50c.**
- 632 BALCONY PURPLE.** Velvety violet-purple. **Pkt., 15c; 2 pkts., 25c; 1/16 oz., 50c.**
- 633 BALCONY ROSE.** Brilliant rose-pink; very effective. **Pkt., 15c; 2 pkts., 25c; 1/16 oz., 50c.**
- 634 BALCONY STAR OF CALIFORNIA.** Beautiful flowers of velvety color, shaded crimson, with pure white blotches. **Pkt., 15c; 2 pkts., 25c; 1/16 oz., 50c.**
- 635 BALCONY WHITE.** The pure white form. **Pkt., 15c; 2 pkts., 25c; 1/16 oz., 50c.**
- 636 BALCONY MIXED.** A mixture of the above varieties. **Pkt., 15c; 2 pkts., 25c; 1/16 oz., 50c.**

Collection of Balcony Petunias

- 2636.** Contains 1 packet each: Blue, crimson, purple, rose and white (value 75c) for 50c.



Petunia, Double Fringed Mixed.

Brilliant Annual Phlox

FLAME FLOWER

For a color effect in the garden there is nothing quite so brilliant and quite so lasting. Quickly grown from seed. They succeed best in a sunny open situation, preferring a light rich loam. For early flowers, sow seed indoors or in the hotbed in March; or they may be sown in the open ground from late April until July. If faded flowers are removed, they will bloom until frost.

GRANDIFLORA VARIETIES—Height 1 Foot

- 637 **ALBA**. Pure white. Pkt., 10c; $\frac{1}{4}$ oz., 40c.
 638 **BRILLIANT**. Bright rose. Pkt., 10c; $\frac{1}{4}$ oz., 40c.
 639 **COCCINEA**. Fiery scarlet. Pkt., 10c; $\frac{1}{4}$ oz., 40c.
 640 **PRIMROSE**. Buff-yellow. Pkt., 10c; $\frac{1}{4}$ oz., 40c.
 641 **VIOLET**. With white eye. Pkt., 10c; $\frac{1}{4}$ oz., 40c.
 642 **GRANDIFLORA MIXED**. An extra choice strain of the best large flowered varieties, unexcelled in profusion and brilliancy of bloom and color. Pkt., 10c; $\frac{1}{4}$ oz., 30c.

Special Collection Annual Phlox

2642. Contains one packet each of the 5 separate varieties offered above. Value, 50c, for 35c.

Phlox Nana Compacta—Dwarf

A dwarf compact type, growing 6 to 8 inches tall. Free flowering. Excellent for dwarf beds and borders.

- 643 **APRICOT**. Yellow. Pkt., 15c; $\frac{1}{8}$ oz., 50c.
 644 **FIREBALL**. Scarlet. Pkt., 15c; $\frac{1}{8}$ oz., 50c.
 645 **ISABELLINA**. Primrose. Pkt., 15c; $\frac{1}{8}$ oz., 50c.
 646 **SNOWBALL**. Pure white. Pkt., 15c; $\frac{1}{8}$ oz., 50c.
 647 **SUNRISE**. Chamois pink. Pkt., 15c; $\frac{1}{8}$ oz., 50c.
 648 **VIOLET**. With white eye. Pkt., 15c; $\frac{1}{8}$ oz., 50c.
 649 **DWARF MIXED**. Includes all the above colors. Pkt., 15c; $\frac{1}{8}$ oz., 45c; $\frac{1}{4}$ oz., 80c.

650 **CUSPIDATA MIXED** (Star Phlox). Star-shaped flowers with lacinated petals. Pkt., 10c; $\frac{1}{4}$ oz., 40c.

PERENNIAL PHLOX. See page 59.

Poppies for Delicate Tints

Sow seed in the fall or early spring where they are to bloom, as they are difficult to transplant. They flower quickly from seed and thrive best in a light loamy soil. Successive sowings should be made to provide continuous blooming.

DOUBLE ANNUAL POPPIES

- 651 **DAZZLER**. A bright orange-scarlet. Pkt., 10c; $\frac{1}{4}$ oz., 25c.
 652 **SWEET BRIAR**. A delightful shade of deep rose-pink. The blossoms are double, resembling a very large double Begonia. Pkt., 10c; $\frac{1}{8}$ oz., 25c.
 653 **DOUBLE SHIRLEY or BEGONIA FLOWERED MIXED**. Beautiful double satiny flowers in every conceivable color. Pkt., 10c; $\frac{1}{4}$ oz., 25c.
 654 **PEONY FLOWERED MIXED**. Very large, double poppies with somewhat broader petals in many pleasing shades. Height, about 2 ft. Pkt., 10c; $\frac{1}{2}$ oz., 25c; oz., 40c.

SINGLE ANNUAL POPPIES

- 655 **AMERICAN LEGION**. A greatly improved English scarlet or Flanders Poppy, with very large flowers of dazzling orange-scarlet. 2 ft. Pkt., 10c; $\frac{1}{2}$ oz., 25c; oz., 40c.
 656 **BLUE SHIRLEY**. Various blue shades. Pkt., 10c; $\frac{1}{4}$ oz., 25c.
 657 **PICOTEE**. White, edged scarlet. Pkt., 10c; $\frac{1}{4}$ oz., 25c.
 658 **TULIP**. One of the most brilliant of poppies, bearing bright scarlet tulip-shaped flowers with a dark spot at the base of each petal. It makes a gorgeous display in masses. Grows about one foot high. Pkt., 10c; $\frac{1}{2}$ oz., 25c; oz., 40c.
 659 **WILD ROSE**. A Shirley Poppy with silky petals of a beautiful wild rose shade. Height, 18 inches. Pkt., 10c; $\frac{1}{4}$ oz., 25c; oz., 60c.
 660 **SINGLE SHIRLEY**. A beautiful sort which blooms a long season and bears large single flowers of flat but artistic shape. Most petals are of very silky texture with an intense sheen. Others plain, some crimped, some like tissue paper and others wavy. Colors range through shades of pink, rose, scarlet, carmine and are generally edged with lighter shades. Pkt., 10c; $\frac{1}{2}$ oz., 25c; oz., 40c.

PERENNIAL POPPIES. See page 59.

Ricinus

(CASTOR BEAN)

- 668 **ZANZIBARIENSIS**. Grows to immense size. Leaves sometimes measure 30 inches across and range in color from bright green to deep bronze. Choice mixed colors. Pkt., 10c; oz., 25c; 4 oz., 75c.
 669 **MIXED SORTS**. A desirable mixture of all varieties. Pkt., 10c; oz., 20c; 4 oz., 60c.



Shirley Poppies.

Portulaca—Moss Rose

Portulacas enjoy the hottest, dryest situation and will grow in almost any soil. Foliage is thick and succulent, like that of a Sedum, and the flowers resemble single and double roses. They bloom most freely throughout the summer and fall. Scatter a few seeds in your rockery or anywhere to fill up empty spaces. Sow seed in May when the ground is warm and it is well to mix the seed with dry sand or soil to ensure an even distribution.

LARGE-FLOWERING DOUBLE VARIETIES

A good percentage of flowers will come double and of the most brilliant colors.

- 661 **WHITE**.
 662 **YELLOW**.
 663 **PINK**.
 664 **CRIMSON**.
 665 **ORANGE**.

Any of the above, pkt., 10c; $\frac{1}{8}$ oz., 75c.

®666 **DOUBLE MIXED**. Pkt., 10c; $\frac{1}{8}$ oz., 50c.

LARGE-FLOWERING SINGLE VARIETIES

®667 **MIXED COLORS**. Comprises a wide range of colors. Pkt., 10c; $\frac{1}{4}$ oz., 20c; oz., 60c.



Portulaca (Moss Rose).



Salpiglossis.

Salvia - Scarlet Sage

One of the most useful and effective bedding plants, which produces immense masses of brilliant turkey-red flowers from early in the season, continuing in uninterrupted succession until frost. Blooms are borne on long spikes well above the foliage and continue in good condition a long time. Spikes are often 8 to 10 inches long and have 30 to 40 tube-like flowers borne in a feathery manner on each side of the stem.

Seed should be started in boxes, hotbeds or greenhouses, transplanted and set out-of-doors after the weather has become warm. Bloom the first season.

672 SPLENDENS. Tall growing sort with dark green foliage and bright fiery scarlet blooms. Annual. Height, 2½ to 3 ft. **Pkt., 10c; ½ oz., 35c; ¼ oz., 60c.**

673 AMERICA or GLOBE OF FIRE. This is the freest and most continuous blooming of all the Scarlet Sages, also the most uniform in habit of growth, which makes it particularly valuable for bedding or planting in lines. Annual. **Pkt., 15c; 2 pkts., 25c; ½ oz., 70c.**

674 FARINACEA. A perennial variety, but best treated as an annual. Color, light blue; 2 ft. **Pkt., 15c.**



Stocks, Giant Imperial.

Double Large Flowering Dwarf Stocks

Ten Weeks Stocks

Sweet scented, double flowers on strong spikes. Fine for the garden; 15 to 18 in. tall.

686 FINEST MIXED. All colors. **Pkt., 10c; ½ oz., 40c; ¼ oz., 75c.**

Rudbeckia

670 KELVEDON STAR. A perfect long-stemmed flower for cutting, a sturdy and floriferous plant for bedding. The flowers vary both in form and in coloring, but all have dark brown centers, surrounded by a shining mahogany zone, deep golden petals. It is a rampant grower, reaching a height of 3 feet, and should be planted 18 inches apart, with 2 feet between the rows. Will bloom from June until frost. Sowings should be made in February or March and the seedlings planted out during early May. **Pkt., 20c.**

Salpiglossis - Painted Tongue

A very showy, half-hardy annual which is desirable both for bedding and border plants. Has richly colored funnel-shaped flowers of many shades including yellow, buff, crimson and scarlet and extends through to purple and almost black.

671 GRANDIFLORA MIXED. All colors. **Pkt., 10c; ½ oz., 25c.**

Sweet Scabiosa

(Pincushion Flower, Mourning Bride)

One of the old-fashioned popular annuals which produce an abundance of many colored flowers which are excellent for cutting. The blossoms are borne on long stems, are fragrant, double and somewhat in the shape of a pincushion. It makes an effective garden plant for bedding or borders.

Seed can be sown in open border and thinned out from 1 to 1½ ft. apart. Grows 2 to 2½ ft. high.

TALL DOUBLE FLOWERING

675 BLUE COCKADE. This outstanding novelty is deeper than Azure Fairy in color, but the flowers are entirely devoid of any suggestion of rose. They are, in fact, the purest deep azure blue that can be found in any annual. The formation of the flower is far ahead of existing varieties, and has so great a depth as to be almost conical in shape. An excellent cut flower, being strong stemmed and free flowering, a good plant for general purposes. **Pkt., 20c.**

676 GIANT LOVELINESS. Loveliness is a glorious new color in annual Scabiosa. The blossoms range through varying tones of soft delicate salmon-rose. This is undoubtedly the most beautiful Scabiosa ever introduced and is the result of seven years of intensive selection. Unsurpassed as a cut flower. It has long stiff stems and a delightful fragrance, but its crowning beauty is its glorious salmon-rose color. **Pkt., 15c; ½ oz., 30c.**

677 PEACH BLOSSOM. A beautiful shade of peach blossom pink, large size and long stem. An excellent cut flower. **Pkt., 10c; ½ oz., 25c.**

678 SHASTA. A pure white of enormous size, the flowers measuring 3½ inches across with extremely long stems. **Pkt., 10c; ½ oz., 25c.**

679 AZURE FAIRY. Clear lavender-blue. **Pkt., 10c; ¼ oz., 25c.**

680 CRIMSON. Rich rosy crimson. **Pkt., 10c; ¼ oz., 25c.**

681 YELLOW. **Pkt., 10c; ¼ oz., 25c.**

682 KING OF THE BLACKS. **Pkt., 10c; ¼ oz., 25c.**

683 TALL DOUBLE MIXED. A splendid sort for large beds or borders. Comprises many beautiful colors. Height, 2½ ft. **Pkt., 10c; ¼ oz., 25c; oz., 60c.**

DWARF DOUBLE FLOWERING

684 CORAL ROSE. Among all the dwarf double Scabiosas in cultivation there is none so neat and compact as this most floriferous new variety. Its color is deeper than that of the Tall Coral Gem, having a little more rose with just a tinge of salmon. The plant does not exceed 8 inches in height and comes very true from seed. **Pkt., 25c.**

Scabiosa Collection

2683. Contains 1 packet each of Azure Fairy, Peach Blossom, Crimson, Shasta, Loveliness and King of the Blacks. Value 65c, for 50c.

PERENNIAL SCABIOSA. See page 60.

Schizanthus

(Butterfly Flower or Poor Man's Orchid)

An attractive hardy annual growing about 20 inches high, of neat, compact growth, and with finely cut foliage. The plant bears very attractive flowers ranging in colors from white to purple and are shaded from their edges to throats with darker colors. Flowers resemble somewhat the butterfly and are borne in clusters or spikes. Seed can be sown outdoors after danger of frost, or started earlier indoors and transplanted.

685 FINEST MIXED COLORS. **Pkt., 10c; 1/16 oz., 50c.**

SNAPDRAGON. See Antirrhinum, page 36.

Early Giant Imperial Stocks

(Cut-and-Come-Again)

A recently developed strain of early-flowering Winter or Erompton Stocks, forming much-branched plants about 2½ ft. high and having numerous spikes of very large, double, delightfully fragrant flowers. They are of special value as pot plants for greenhouse decorations and for cutting during the dull winter months; for this purpose seed should be sown from July to September; if sown in February or March will produce plants that will bloom out-of-doors from mid-summer till frost. Annual.

- 687 **ANTIQUÉ COPPER.** Coppery red. Pkt., 15c; 1/16 oz., 50c.
 688 **APPLE BLOSSOM.** Blush-pink. Pkt., 15c; 1/16 oz., 50c.
 689 **CANARY YELLOW.** Pkt., 15c; 1/16 oz., 50c.
 690 **ELK'S PRIDE.** Royal purple. Pkt., 15c; 1/16 oz., 50c.
 691 **FIERY BLOOD RED.** Striking. Pkt., 15c; 1/16 oz., 50c.
 692 **GOLDEN ROSE.** Deep rose with a golden sheen. Pkt., 15c.
 693 **ROSE.** Deep rose-pink. Pkt., 15c; 1/16 oz., 50c.
 694 **WHITE.** Pure white. Pkt., 15c; 1/16 oz., 50c.
 695 **LAVENDER.** Soft violet-purple. Pkt., 15c; 1/16 oz., 50c.
 696 **SUPERB.** Mixed. Pkt., 15c; 1/16 oz., 50c.

Sunflower - Helianthus

(Hardy Annual)

Of easy culture, and the newer sorts are among the most ornamental and effective of all garden annuals. The single flowering sorts are indispensable for cutting. Bloom early and continue until frost.

- 697 **CHRYSANTHEMUM-FLOWERED.** Fine, perfectly double golden flowers, resembling Japanese chrysanthemums; 6 to 10 inches in diameter. Plants grow to the height of 5 to 6 feet. Pkt., 10c; oz., 30c.
 698 **RED.** The flowers are of a chestnut-red color, which appears as a ribbon around the center while the points of the petals are tipped yellow. Grows to a height of 6 feet. Pkt., 15c; 2 pkts., 25c.
 699 **STELLA.** Height, 3 to 4 feet. Flowers star-shaped, of brightest golden-yellow, with dark centers. They are suitable for cutting. Pkt., 10c; ¼ oz., 25c.
 700 **RUSSIAN MAMMOTH.** Single, very large. Sow a few seeds in the corner of the garden. An excellent plant to attract birds and provide feed for them in the late summer and fall. 1 oz., 5c.

Sweet Peas

Sweet Peas are among the seeds to be sown very early in the spring. They should go into the ground as soon as the soil can be worked, and should be planted six inches deep, being covered at first with only two inches of soil, the trench being filled as the plants grow. One ounce sows 35 to 40 feet in a row. It is best to soak the seeds for several hours before they are planted. If this plan of planting early is followed, and if the Sweet Peas are kept mulched with peat moss or with lawn clippings or else watered abundantly, they will generally give a fine crop of blooms.

Early Flowering Spencer Varieties

While these are especially adapted for forcing under glass for winter and early spring blooming, they are also valuable for outdoor culture, coming into bloom five or six weeks earlier than the regular Spencer type, and if the flowers are kept cut, they will continue to bloom for a long time.

- 701 **AVIATOR.** Dazzling crimson-scarlet.
 702 **BLUE BIRD.** A splendid rich, deep blue.
 703 **BURPEE'S ORANGE.** Deep orange.
 704 **GIANT ROSE.** Rose-pink, very large.
 705 **HARMONY.** Clear lavender.
 706 **MRS. KERR.** A fine shade of salmon.
 707 **ROSE QUEEN.** Light rose-pink.
 708 **WHITE HARMONY.** Pure white, long stems.
 Price any of the above: Pkt., 10c; ½ oz., 30c; oz., 50c; ¼ lb., \$1.50.
 709 **EARLY FLOWERING MIXED.** A splendid mixture containing all colors. Pkt., 10c; oz., 35c; ¼ lb., \$1.25.

Summer Flowering Spencer

- 711 **COMMANDER GODSALL.** Deep violet-blue.
 712 **FLUFFY RUFFLES.** Light cream-pink, with ruffled blooms.
 713 **HEAVENLY BLUE.** Delphinium-blue.
 714 **HUNTSMAN.** A sunproof scarlet.
 715 **IVORY PICTURE.** Ivory-cream.
 716 **KING WHITE.** A giant white.
 717 **ORANGE PICTURE.** Sunproof orange.
 718 **PINKIE.** Clear deep pink.
 Price any of the above: Pkt., 10c; oz., 25c; ¼ lb., 75c.

EIGHT SUMMER FLOWERING SWEET PEAS

2719. Contains 1 packet each of the eight varieties offered above. Value, 80c, for 60c.



Sunflower, Chrysanthemum-Flowered.

SWEET PEA, FANTASY MIXTURE

710 **FANTASY MIXTURE.** A unique mixture and an entirely fresh class of fantasy markings and colorings. Every flower in Fantasy Mixture is beautifully veined and watered. Orange, light and dark blue, all shades of pinks, chocolates, lavenders, maroons, mauves, and many other colors are represented. This new mixture makes an exceptionally attractive bouquet and being a very strong strain, will be welcomed for general garden work. Its value is further enhanced by the exceptionally strong and fragrant scent. Pkt., 20c.

719 **BEST SPENCER MIXED.** Comprises the best varieties in all beautiful shades and colors and much superior to that offered indiscriminately as coming from growers. Pkt., 10c; oz., 15c; ¼ lb., 50c; 1 lb., \$1.50.

HARDY SWEET PEAS. See *Lathyrus latifolius*.



Spencer Sweet Peas.



Ursinia, Pulchra.

Tagetes - Pigmy Marigold

720 SIGNATA PUMILA, Golden Gem. A much improved dwarf compact variety, 6 to 8 inches high, throwing the flower well above the delicate, fern-like foliage, densely covered with flowers of bright yellow, striped brown. Splendid for beds and edging. Pkt., 10c; $\frac{1}{8}$ oz., 30c; $\frac{1}{4}$ oz., 50c.



Tagetes, Golden Gem.

Tithonia - Mexican Sunflower

GOLDEN FLOWER OF THE INCAS

721 SPECIOSA. Color, orange-vermilion, resembling Single Sunflowers, foliage and habit of growth like Dahlias. For complete description, see Novelty page 33. Pkt., 20c.

722 EARLY FLOWERING STRAIN. Ten days earlier, dwarfer, flowers slightly smaller than Speciosa. Pkt., 20c.

Torenia

A free-blooming annual, growing 10 to 12 inches tall. Makes a fine display in borders, pots, or window boxes.

723 FOURNIERI. Velvety blue with dark blue blotches and yellow throat. Pkt., 15c; $\frac{1}{16}$ oz., 50c.



Giant Verbena.

Ursinia

Emerging from their South African solitudes, the Ursinias have been rapidly making for themselves a place in horticulture. The dwarf plants are well furnished with finely cut foliage, above which rise brilliant orange colored daisy-like flowers, measuring over 2 inches in diameter, each with a deep purple or red zone around the center. The flowers are borne on long wiry stems, and make an excellent decoration in small vases. Many South African introductions close early in the afternoon, but the Ursinia will be found to remain open until nearly dark. When grown in the garden, it should be given a sunny position, and strong plants raised in pots from seed sown indoors during the latter part of March or early April and transferred to the open ground in May, will produce a very effective display. For flowering under glass, January is the best time for sowing.

724 ANETHOIDES. A brilliant orange daisy-like flower, measuring over 2 inches in diameter, with a deep purple zone around the center. Height 1 foot. Pkt., 15c.

725 PULCHRA. About half the height of Ursinia Anethoides and with more delicately cut foliage. A very deep orange with the purple zone around the center. Pkt., 25c.

726 AURORA. This variety occupies an intermediate place between the two varieties offered above. Midway as regards height, with habits and foliage similar to Pulchra, but the distinctive charm lies in the broad zone of deep crimson-red which adorns the center of the bright orange flowers. Pkt., 25c.

Verbena

NEW GIANT HYBRIDS

A magnificent new strain of Verbenas, of robust, compact habit and free blooming. The trusses are immense, the individual florets measuring an inch in diameter. These Verbenas are fixed and come true from seed.

Seed can be started in the house and transplanted to the garden when the weather is warm, or sown in the open ground, thinned and transplanted. Verbenas from seed are much more thrifty and less liable to rust than from cuttings. Annual, 1 ft. high.

727 SPECTRUM RED. For description see Novelty page 33. Pkt., 35c

728 CERISE QUEEN. For description see Novelty page 33. Pkt., 35c.

729 BEAUTY OF OXFORD HYBRID. A beautiful Giant Hybrid, raised from a cross between Verbena Luminosa and Beauty of Oxford. While following closely the color of Beauty of Oxford, it also inherits a touch of salmon-pink from Luminosa which gives a lovely softening effect. The color shades from clear rose-pink to rose-red, making this the brightest rose Verbena ever produced from seed. The individual florets measure over one inch in diameter and easily cover a silver half-dollar. The foliage is a dark cress-green. Pkt., 25c.

730 LAVENDER GLORY. A true lavender with a creamy white eye. Large florets; sweetly fragrant. Pkt., 20c; $\frac{1}{16}$ oz., 50c.

731 ROYALE. This is a Verbena of enormous size, the individual florets measuring over an inch and a quarter in diameter. The color of this new Verbena is a rich, deep, royal blue with a large creamy-yellow eye. Pkt., 15c; $\frac{1}{16}$ oz., 35c.

732 ETNA. Large trusses of intense geranium-red with a small creamy yellow eye. The individual florets are over one inch in diameter. Pkt., 15c; $\frac{1}{8}$ oz., 45c.

733 LUCIFER. An improved strain, vivid scarlet. Pkt., 15c; $\frac{1}{8}$ oz., 45c.

734 LUMINOSA. Flame-pink, shading to salmon. Pkt., 15c; $\frac{1}{8}$ oz., 45c.

735 ROSE-CARDINAL. Large blooms. Deep rose with a white eye. Pkt., 15c; $\frac{1}{8}$ oz., 40c.

736 SALMON PINK. Beautiful salmon-pink flowers. Pkt., 15c; $\frac{1}{8}$ oz., 40c.

737 WHITE. Pkt., 15c; $\frac{1}{8}$ oz., 45c.

738 MAMMOTH MIXED. Comprising a wonderful range of charming colors in every conceivable shade. Pkt., 10c; $\frac{1}{8}$ oz., 30c; $\frac{1}{4}$ oz., 50c.

COLLECTION

New Giant-Flowering Verbenas

Contains one packet each of Royale, Etna, Salmon-pink and White. (Value 60c) for 45c.

Dwarf Verbenas

739 CARMINE BALL. Very neat and compact in habit, color a bright carmine. For complete description, see Novelty page 33. Pkt., 35c.

Zinnias for Every Purpose

Few, if any, annuals have greater utility value than that of the Zinnia. Many distinct types have been developed, some bearing flowers of enormous size and others producing miniature double blooms in profusion. For early flowers sow seed indoors in March and transplant seedlings to the garden in early May, or, if preferred, sow seed in open ground in April. Space the large flowering and taller sorts from 1½ to 2 feet apart; Pompon or Lilliput types 8 to 12 inches apart.

Giant Dahlia-Flowered Zinnias

The most outstanding of all Zinnias because of the wonderful range of rich colors. The flowers are immense, often measuring 5 to 6 inches across, and 3 to 4 inches in depth. They are borne profusely from late summer until frost. The bushes are 2½ to 3 feet tall, of well-rounded form.

For illustration in colors, see back inside cover.

748 CANARY BIRD. A delicate shade of primrose very large and holds its color well until out of bloom. **Pkt., 15c.**

749 CRIMSON MONARCH. By far the largest and best of the red shades. Flowers often eight inches in diameter. Plants very vigorous. A marvelous production of extraordinary merit. **Pkt., 15c.**

750 DREAM. A fine, deep lavender, turning to purple (Mallow Purple), a new, desirable shade in Zinnias. **Pkt., 15c.**

751 EXQUISITE. By far the most pleasing of our collection. Truly Dahlia flowered as regards form and size. Color, light rose with center a deep rose (Tyrian rose). **Pkt., 15c.**

752 GOLDEN DAWN. A beautiful golden-yellow of immense size and good form. Very attractive. **Pkt., 15c.**

753 GOLDEN STATE. A very rich orange-yellow (cadmium). Yellow in the bud, turning to an attractive orange when in full bloom. **Pkt., 15c.**

754 ILLUMINATION. Similar to Exquisite, but a striking shade of deep rose. **Pkt., 15c.**

755 LEMON BEAUTY. This is next to Crimson Monarch in size and form. It may be described as a golden-yellow on brown. Decidedly a pastel shade and should be in every collection. **Pkt., 15c.**

756 METEOR. A rich, glowing deep red (spinel red) and the darkest of all the red shades. Fine form, with good depth of petal. Very large and more floriferous than other reds. **Pkt., 15c.**

757 OLD ROSE. This is adequately described by its name, as it is of the real old-rose shade; it is large and for charm and beauty we consider it ranks next to Exquisite. **Pkt., 15c.**

758 ORIOLE. We consider this the most beautiful of its class. It is an immense orange and gold bicolor, changing slightly as it ages, but at all times worthy of the beautiful bird for which it is named. **Pkt., 15c.**

759 POLAR BEAR. A very large pure white, the best white yet seen in Zinnias. True Dahlia form. **Pkt., 15c.**

760 PURPLE PRINCE. A fine deep purple (Rhodanthé purple). large and well-formed. **Pkt., 15c.**

761 SCARLET FLAME. A large, beautiful, bright scarlet, with a delightful blending of orange throughout the petal. This is not a bicolor. **Pkt., 15c.**

762 YOUTH. A beautiful soft rose, valuable for forcing and a good shipper, having better lasting qualities than any other variety offered. **Pkt., 15c.**

Any of the above Dahlia-Flowered Zinnias, ½ oz., 35c; ¼ oz., 60c; oz., \$1.75.

763 SPECIAL GOLD MEDAL MIXTURE. A well blended mixture containing all the above novelties. **Pkt., 15c; ½ oz., 25c; ¼ oz., 40c; oz., \$1.25.**

SPECIAL COLLECTIONS Giant Dahlia-Flowered Zinnias

1763. Contains 1 packet each of the above 15 separate named varieties (value \$2.25) for **\$1.50.**

2763. Contains 1 packet each of **Crimson Monarch, Dream, Illumination, Golden Dawn, Oriole** (value 75c) for **50c.**

Scabiosa Flowered

764 MIXED. An entirely distinct and attractive strain of Zinnia of exquisite form, reminding one of Double Crested Cosmos. The flowers are of medium size and each bears a collar of petals surmounted by a full double crest of the same tone of color. The plants are very free flowering and range in color from pale rose to crimson and scarlet with orange, golden and purple shades. Being about 2½ feet in height, this strain makes a remarkably pleasing effect when used for bedding purposes. **Pkt., 20c.**



Giant Dahlia-Flowered Zinnia.

California Giant Zinnias

The strain has the same robust habit as the Dahlia-Flowered. When the flowers are in full bloom, they reach enormous size, but their flatness gives them a most graceful appearance.

766 DAFFODIL. Canary-yellow.

767 BRIGHTNESS. Bright, deep pink.

768 GRENADIER. Bright dark red.

769 LAVENDER GEM. Deep lavender turning to purple.

770 LEMON QUEEN. Golden lemon.

771 MISS WILLMOTT. Soft pink.

772 ORANGE KING. Orange-scarlet.

773 PURITY. White.

774 SALMON QUEEN. Salmon-rose.

775 VIOLET QUEEN. Deep purple.

PRICE, any of the above: **Pkt., 10c; ½ oz., 30c; ¼ oz., 50c; oz., \$1.50.**

776 FINEST MIXED. A mixture of the above varieties. **Pkt., 10c; ½ oz., 20c; ¼ oz., 35c; oz., \$1.00.**



Zinnia, Scabiosa-Flowered.



Zinnia, Lilliput.

Wallflower

745 EARLY WONDER MIXED. A recent novelty from Europe. If planted in early spring will be in full bloom by early summer. The flowers are equal to the perennial in size and every respect. It was developed by crossing the Perennial Double with the Early Annual and should thrive and bloom profusely in our warm and dry summers. **Pkt., 15c.**

"Wild Garden" Flower Seed

This comprises a mixture of annuals, biennials and perennials and consists of sorts growing at moderate heights. No vines, trailers, or very tall growing plants are used in it.

746 Large pkt., 10c; oz., 25c; ¼ lb., 75c; 1 lb., \$2.50.

Xeranthemum - Everlasting Flower

747 DOUBLE MIXED. Bright and pretty "Everlasting" with silvery foliage and silky flowers in pink, white and purple. **Pkt., 10c.**



Viscaria, Blue Bouquet.

Zinnia Crown o' Gold

765 MIXED. This new Zinnia derives its name and distinction from the fact that each petal of the flower is overlaid with a deep golden-yellow at the base, while carrying out the individual flower color at the tip. The effect is a very pleasing two-tone color harmony. The color range comprises the more popular shades, including old rose, cream, yellow, earmine and burnished red; the latter a new shade in Zinnias. **Pkt., 20c.**

Dwarf Zinnias for Beds and Borders

Zinnia, Lilliput

This type of Zinnia forms a bush about 12 to 15 inches high and is covered with small, very double flowers in profusion. Excellent for cutting.

777 ROSEBUD.

778 CANARY YELLOW.

779 CRIMSON GEM.

780 FLESH.

781 GOLDEN GEM.

782 PURPLE.

783 SALMON ROSE.

784 SCARLET GEM. (Red Riding Hood).

785 WHITE GEM.

PRICE, any of the above Lilliput Zinnias: **Pkt., 10c; ½ oz., 25c; ¼ oz., 40c; oz., \$1.20.**

786 FINEST MIXED. A mixture of the above colors. **¼ oz., 35c; oz., \$1.00; pkt., 10c.**

Our Special Offer of Lilliput Zinnias

2786. Contains a packet each of Canary-Yellow, Scarlet Gem, Salmon-Rose, Purple and White Gem. (Value 50c) for 35c.

788 MEXICANA HYBRIDS. Single and semi-double flowers somewhat like those of the French Marigold, in shades of yellow, orange, crimson and brown. Height 18 inches. **Pkt., 10c; ½ oz., 35c.**

789 PUMILA DOUBLE MIXED. Height 18 inches. **Pkt., 10c; ¼ oz., 25c.**

790 DWARF CURLED AND CRESTED. Twisted and curled petals which make very effective flowers. **Pkt., 10c; ¼ oz., 25c.**

Early Wonder - A New Dwarf Race

Blooms very early and grows 12 to 15 inches tall. Medium sized flowers but borne on long stems, starting from the ground, with no laterals and few leaves. Very fine for cutting.

787 FIERY SALMON. Cerise-pink. **Pkt., 15c; ½ oz., 60c; ¼ oz., \$1.00.**

Venidium

740 FASTUOSUM. A half-hardy South African annual which can be grown either outdoors or under glass. About 2 to 3 feet high, with long serrated leaves and flowers 3 inches across, of a most brilliant orange with a dark center and black-purple zone. Sown in February will bloom indoors by the middle of May, or outdoors in July. Very effective. **Pkt., 20c.**

Vinca - Periwinkle

Valuable for bedding, seed should be sown early. Annual.

741 ROSE. **Pkt., 10c; ¼ oz., 50c.**

742 MIXED. White and pink. **Pkt., 10c; ¼ oz., 40c.**

VIOLA. See perennial page 61.

Viscaria

A very beautiful annual and easy to grow. Very free-flowering, producing throughout the entire summer its showy single flowers in red, white and blue shades. For bloom outdoors, seed may be sown in the open during March, April or May, or in September, for early flowering. Height, 12 to 18 inches.

743 OCULATA COERULEA, BLUE BOUQUET. Of late years the Viscarias have advanced considerably in general favor as effective bedding plants. This novelty shows a development in the habit of the plant, which is of strikingly erect growth and has the appearance of an elegant bouquet, thus distinguishing it from the rather spreading nature of its tribe. The flowers are larger than those of the ordinary Viscaria oculata coerulea and of a more beautiful shade of blue. Hardy annual. Blooms from July until frost. Height, 12 to 18 inches. **Pkt., 20c.**

744 OCULATA, TOM THUMB MIXED. Special Mixture of red, white and blue shades. Height, 1 ft. **Pkt., 15c.**

Seeds of Hardy Perennial Flowers and Rock Garden Plants

There can be no greater joy than the planting of your own Perennial or Rock Garden, and certainly nothing more fascinating than actually growing from seed the plants and varieties desired. Perennials are those plants that go on living and increasing for a number of years, the stems dying down each season and coming again from the roots each spring. Most varieties are easily raised from seed sown during the late spring and early summer in frames or seed beds and transplanted to their permanent quarters in the late summer or early autumn. If the seed be planted in August, they should be wintered over in the cold frame and transplanted to the border or rockery the following spring.

All varieties marked with a ® throughout the list are especially suitable for the rockery.

Achillea - Milfoil or Yarrow

801 PTARMICA, THE PEARL. A free blooming hardy perennial, bearing a profusion of small, double, white flowers on plants 2 feet tall, during July and August. Easily grown from seed, flowering the first season, if sown early. **Pkt., 15c; 1/16 oz., 50c.**

Aconitum - Monkshood

Bold spikes of hood-shaped flowers, valuable for cutting; very effective in flower borders and shrubberies, thriving anywhere. Hardy perennial.

802 NAPELLUS. 2½ feet. July, August. Fine, rich blue flowers. **Pkt., 10c; 1/8 oz., 45c; 1/4 oz., 75c.**

Adonis - Pheasant's Eye

®**803 VERNALIS.** (Spring Adonis). A very useful hardy perennial for the rock garden or border. Should be planted in a warm corner among Arabis, Aubrietias, Crocuses and Hepaticas. Grows 8 to 12 inches tall, bearing single, yellow, buttercup-like flowers during late March and April. Will grow in sun or half shade. Seed germinates slowly. **Pkt., 10c; 1/16 oz., 35c.**

Agrostemma - Mullein Pink

804 CORONARIA. Silvery foliage and bright crimson flowers: free-flowering hardy perennial of easy culture; blooms the first season; fine for cutting; 2½ to 3 feet; June to August. **Pkt., 10c.**

AMPELOPSIS VEITCHI. Boston Ivy. See page 62.

Alyssum - Rock Madwort

®**805 SAXATILE COMPACTUM.** (Basket of Gold). Showy, bright yellow flowers, hardy perennials; excellent for rock work; 1 foot. **Pkt., 10c; 1/4 oz., 25c.**

®**806 SAXATILE COMPACTUM, SILVER QUEEN.** Broad masses of pale lemon flowers in early spring. Useful in the border as well as in the dry wall or rock garden. **Pkt., 20c; 3 pkts., 50c.**

ANNUAL SWEET ALYSSUM. See page 35.

Anchusa

807 ITALICA "FELTHAM PRIDE". Upright habit, having flowers of the brightest blue. For complete description, see Novelty page 30. **Pkt., 25c.**

®**808 MYOSOTIDIFLORA.** A Russian species, bearing in April a profusion of pretty pale blue Forget-me-not-like flowers. Height 1 foot. **Pkt., 25c.**

PLEASE NOTE!

All 10c packets, 3 pkts. for	\$0.25
All 15c packets, 2 pkts. for .....	.25
All 20c packets, 3 pkts. for .....	.50
All 25c packets, 3 pkts. for .....	.65
All 35c packets, 3 pkts. for	1.00



Adonis Vernalis.



Anchusa, Feltham Pride.



Aquilegia, Emperor.



Anemone Pulsatilla.



Aster Alpinus, Goliath.

Anthemis - Hardy Marguerite

809 KELWAYI. A most satisfactory hardy perennial, bearing all summer daisy-like, golden-yellow blossoms; excellent for cutting; 2 feet. **Pkt., 10c; 1/8 oz., 25c.**

®810 MONTANA. Silvery tufted foliage with white flowers. April to July. Height 9 inches. **Pkt., 15c.**

Anemone - Windflower

811 ST. BRIGID. A very pleasing perennial, producing large, Irish poppy flowers; few plants compare with them in beauty; fine for bouquets. **Pkt., 10c; 1/4 oz., 75c.**

®812 PULSATILLA, (Pasque Flower). Grows from 9 to 12 inches high and produces violet or purple flowers during April and May. An interesting plant for the rockery or well-drained border. Plant in full sun, 6 to 8 inches apart. **Pkt., 15c.**

®813 SYLVESTRIS. Large white blossoms on nodding stems of about 12 inches, blooming freely in May and June. Lovely cut flower. Fine for cool, moist corner of rock garden or border. **Pkt., 15c.**

Aquilegia - Columbine

This graceful Hardy Perennial is an ideal plant for partially shaded borders. As a cut flower it is noted for its beauty of form and richness of color.

CULTURE. Columbines, especially the long-spurred hybrids, thrive in a light soil, loose and fibrous, provided by adding peat and well-decayed manure. When planted in partial shade, the flowers develop better, grow larger and last longer. Easily raised from seed.

814 EMPEROR. This new giant race is a selection from the very finest strains of long-spurred Columbines in England, and far surpasses them as ornamental plants for the border, through its greater height, which averages 4 to 5 feet. The flowers are exceptionally fine and possess a really good range of colors. **Pkt., 25c.**

815 CRIMSON STAR. The novelty we here offer bears flowers of brilliant dark crimson, which, being borne profusely on the plant forms a most attractive subject for the border. This shade is a welcome addition to the long-spurred class. The raiser claims that it will come reasonably true to color from seed. **Pkt., 25c.**

816 MRS. NICHOLLS. A much improved strain, developed by an English specialist. The flowers are of a very bold type, color a rich shade of blue. **Pkt., 25c.**

817 COERULEA. (Rocky Mountain Columbine). One of the most beautiful of our native American flowers. Sepals deep blue; petals white. Height, 1 to 2 feet. April to July. **Pkt., 15c.**

818 ROSE QUEEN. Long-spurred pink flowers with white center and yellow anthers. Height, 2 1/2 feet. **Pkt., 15c.**

819 DOBBIE'S IMPERIAL HYBRIDS. These new long-spurred Columbines are unequalled for their range of colors and sturdiness. They have received a great deal of attention abroad and are considered in England to be one of the best mixtures offered today. **Pkt., 25c.**

820 MRS. SCOTT ELLIOTT'S STRAIN OF LONG-SPURRED HYBRIDS. A renowned English strain, which enjoys a world's reputation for large size flowers with long spurs. The colors range from pure white through tones of pink, blue, yellow and red. **Pkt., 15c; 1/16 oz., 50c; 1/8 oz., 90c.**

821 SINGLE FLOWERING. All colors mixed. **Pkt., 10c; 1/4 oz., 25c.**

822 DOUBLE FLOWERING. All colors mixed. **Pkt., 10c; 1/4 oz., 30c.**

®823 ALPINA. (Blue Alpine Columbine). True dwarf species, growing 12 inches high. Blue with white. Blooms April, May. **Pkt., 15c.**

Arabis - Rock Cress

®824 ALPINA. A hardy perennial and one of the earliest and prettiest spring flowers. The spreading tufts are covered with a sheet of pure white flowers as soon as the snow disappears. Unequaled for rockeries or edging; withstands the drought and is always neat; 6 inches. **Pkt., 10c; 1/4 oz., 25c; oz., 75c.**

®825 GRANDIFLORA SUPERBA. Similar in every way to the above but having improved habit with larger flowers. **Pkt., 15c.**

®826 ROSEA. Similar in habit to the above. The flowers are a delicate pale pink. A rare rock plant. **Pkt., 25c.**

Arenaria - Sandwort

These little Alpine plants require a well-drained, sandy soil, not too rich, and prefer a sunny location in the rock garden or rock wall. Easily raised from seed.

®827 MONTANA. Growing in close tufts about 4 inches high profusely covered with small silvery-white flowers quite early in May. **Pkt., 20c.**

Armeria - Sea Pink or Thrift

Attractive dwarf plants that are invaluable for the rock garden, thriving in sunny places and succeeding in any soil. Forms evergreen tufts of bright green foliage from which flowers appear in dense heads on stiff, wiry stems, from 3 to 12 inches high. May be easily raised from seed.

®828 **CEPHALOTES, BEES' RUBY**. Brilliant pink with long stems. The finest Armeria for the border and for cutting. Pkt., 15c.

®829 **LAUCHEANA**. Bright rosy red, 3 to 6 inches, May to June. Pkt., 15c.

Aster - Michaelmas Daisy

General List of Asters on Page 37

®830 **ALPINUS GOLIATH**. Indispensable for the rockery or edge of hardy borders; 6 to 10 inches high and bears showy bluish-purple flowers in May and June. Plant in full sun, 6 to 8 inches apart. Pkt., 20c; 3 pkts., 50c.

®831 **ALPINUS**. Mixed. Similar in habit to the above. Large lavender, blue and white flowers. Pkt., 15c; ½ oz., 65c.

®832 **FARRERI**. The color is a soft tone of violet-mauve, with large golden orange disk. The flowers are from 2 to 3 inches across. Blooms in June and July. Pkt., 20c; 3 pkts., 50c.

®833 **SUBCOERULEUS**. (Florist's Delight). Forms a dense tuft of leaves from which arise many leafless stems 12 inches in height, bearing in June and July azure blue daisy-like flowers 3 inches in diameter with golden centers. Pkt., 20c.

®834 **LARGE FLOWERING**. Mixed. Single fall flowering hardy Asters thriving in any good garden soil. If sown early they will flower the first season. Pkt., 15c; ½ oz., 60c.

Bellis Perennis - English Daisy

A well-known dwarf growing plant which bears massive and very double aster-like flowers. It is very useful for borders or growing for cut flowers. Plants are about 6 inches high and bear in greatest profusion.

®841 **GIANT RED**. Pkt., 15c; ½ oz., 75c.

®842 **DOUBLE MIXED**. Large, double flowers, various shades, pink, red, white and other colors. Pkt., 15c; ½ oz., 60c.

Campanula

In this great family of plants are some of the loveliest and most enchanting of rock plants and alpinas, as well as a great number of beautiful and useful plants for the open borders and for naturalizing in half-shaded wild gardens. Easily raised from seed and having the advantage of flowering late and giving blooms in the summer time when flowers in the rock garden or perennial border are scarce.

Campanula - Bellflower

The following Campanulas are all hardy perennials and will succeed in ordinary rich soil.

®847 **CARPATICA, BLUE** (Carpathian Harebell). Free-flowering hardy perennial plants, continuing in bloom the whole season; color clear blue. Good for edging and rock gardens. Will bloom the first season if sown early. Height, 6 inches. Pkt., 10c; ½ oz., 30c; ¼ oz., 50c.

®848 **CARPATICA ALBA**. The white-flowered form of the above. Pkt., 10c; ½ oz., 30c; ¼ oz., 50c.

®849 **PERSICIFOLIA, TELHAM BEAUTY**, (Peach Bells). Immense bell-shaped flowers of a pale china blue, silvery shading. Height, 2 feet. Pkt., 25c.

®850 **PYRAMIDALIS, BLUE** (Chimney Bellflower). Produces spikes 4 feet long covered with blue, star-shaped flowers during the entire summer. Pkt., 10c.

®851 **PUSILLA**. A lovely plant for the alpine rock garden. The dainty bell-like pale blue flowers are produced in clusters rising to a height of about 3 inches. Blooms from June to August. Pkt., 25c.

®852 **ROTUNDIFOLIA** (Blue Bells of Scotland or Harebell). This little English Harebell forms a lovely plant with drooping blue-bell flowers on delicate, wiry stems. Especially suited for crevices in the rock garden or on the rock wall when planted so that the pendent habit is shown. Grows 6 to 12 inches high in a sunny or lightly shaded situation. June to August. Pkt., 20c.

®853 **ROTUNDIFOLIA OLYMPICA**. The harebell nodding in the rockery or woodland shades is a delightful object and we are glad to be able to offer a larger and more beautiful form. It is an alpine and comes from the Olympian Mountains of the State of Washington. The flower is of a beautiful deep lavender-blue, about one inch across and the same in length, borne on a plant of compact habit about 8 inches in height. Blossoms freely through the summer and fall. Pkt., 35c.

®854 **SARMATICA**. A very graceful plant with masses of velvety drooping light blue flowers in clusters. Foliage gray, wrinkled and hairy. Easily grown from seed and thrives in a rich loam well drained. Grows 12 to 16 inches high in a sunny situation. Blooms from June to August. Pkt., 25c.

CAMPANULA CALYCANTHEMA. See page 54.



Aubrietia Eyri.

Aubrietia - False Wall Cress

Lovely dwarf growing perennial plant that should be enjoyed in more gardens. Their use is not confined to the rock garden but when massed on dry walls or along the edge of sunny borders with white Arabis and yellow Alyssum will give rich spreads of color. Moreover, they are easily raised from seed, blooming the second year. The plants should be well clipped over after flowering so that they will make a fine growth for next year's blossoming.

®835 **BOUGAINVILLEI**. Light violet-purple. Pkt., 15c.

®836 **EYRI**. Large flowered dark violet-purple. Thrives in stony places or any garden soil. Full sun. Late April and May. Pkt., 15c.

®837 **GRAECA**. A compact large-flowered blue variety. Full sun. Mid-April to late May. Pkt., 10c.

®838 **LEICHTLINI**. Leaves grayish, usually evergreen. Color carmine-rose. Sun or half shade. Late April and May. Pkt., 20c; 3 pkts., 50c.

®839 **Mrs. LLOYD EDWARDS**. Bright crimson-purple. Flowers very large and attractive. Pkt., 20c; 3 pkts., 50c.

®840 **NEW LARGE-FLOWERING HYBRIDS**. Exceptionally fine strain, including a wide range of many unusual colors, which cannot be fixed and offered separately. Pkt., 15c; 1/16 oz., 75c.



Campanula Carpatica Alba.



Digitalis, Shirley Strain. See page 56.



Dianthus Deltoides, Maiden Pink.

Dianthus - Hardy Garden Pinks

Every garden should include some of the pinks because they are so easily grown and make such a wonderful display with their bright colored flowers. The plants are covered with sweet-scented flowers all during the summer. Grows about 1 foot high.

®881 **ALLWOODI**. Mixed. A splendid strain, being half carnation and half pink. 75 per cent come double. **Pkt., 35c.**

BARBATUS. See Sweet William, page 60.

®882 **HIGHLAND QUEEN**. The most brilliant perennial *Dianthus* in cultivation, bearing in profusion flowers of a lustrous scarlet-vermilion color, which captivates the beholder at first sight. It is extremely hardy, of vigorous growth, and ideal for bedding, borders and the rock garden continuing in bloom, as it does, from end of May until frost. **Pkt., 35c.**

®883 **PLUMARIUS** (Pheasant's Eye Pink). A semi-double hardy variety, clove-scented. Flowers bluish white, shaded with crimson and maroon. **Pkt., 10c; 1/4 oz., 25c.**

Campanula Calycanthemus

Cup and Saucer Canterbury Bells

Sow these hardy biennials in early summer and transplant in autumn for flowering the following year. Height, 2 1/2 feet.

843 **BLUE**. **Pkt., 10c; 1/8 oz., 35c.**

844 **PINK**. **Pkt., 10c; 1/8 oz., 35c.**

845 **WHITE**. **Pkt., 10c; 1/8 oz., 35c.**

846 **SPECIAL MIXTURE**. **Pkt., 10c; 1/8 oz., 35c.**

CAMPANULA (Bellflower). See page 53.

Carnations

855 **HARDY BORDER DOUBLE MIXED**. A good hardy strain for outdoor culture, flowering the second season and producing a mass of flowers in a great variety of colors. 2 feet. **Pkt., 15c; 1/8 oz., 50c.**

Centaurea

856 **MONTANA** (Perennial Cornflower). Hardy perennial variety, grows 2 feet high, bearing large violet-blue flowers from July to September. **Pkt., 10c; 1/8 oz., 25c.**

Cerastium - Snow-in-Summer

These blanketing hardy perennial plants are suitable for growing over stones and rough banks, also used on rough places in the rock garden or for edging of borders.

®857 **TOMENTOSUM**. Narrow, silvery foliage with white flowers, suitable for planting in dry sunny places, 3 to 6 inches. June. **Pkt., 10c; 1/8 oz., 35c; 1/4 oz., 55c.**

Cheiranthus

Very pretty dwarf hardy biennial plants, usually handled as annuals, flowering freely throughout the summer from seed sown in spring; for early spring flowering, sow in late summer. Splendid for rockery.

®858 **ALLIONI** (Siberian Wallflower). About 12 inches high with heads of brilliant orange flowers. **Pkt., 10c; 1/4 oz., 25c.**

Chrysanthemum—New Types

®859 **MAWI**. An ideal plant for the border or rockery. Height about 1 foot. Flowers 2 inches across and of a rich pink color. Silvery foliage and perfectly hardy. **Pkt., 25c.**

860 **CASCADE**. For complete description, see Novelty page 31. **Pkt., 20c.**

Chrysanthemum - Shasta Daisy

861 **THE PRINCE**. A Shasta Daisy producing very large pure white flowers, 5 inches in diameter, borne on long stiff stalks, 18 inches and more in length, of which the vigorous plant throws up a large number. Blooming takes place in about mid-season and it is no doubt the best variety for cutting yet produced. **Pkt., 15c; 1/8 oz., 35c.**

862 **ALASKA**. A splendid hardy perennial variety with flowers rarely less than 5 inches across, of the purest glistening white, with broad overlapping petals, and borne on long strong stems; a beautiful cut flower, remaining in good condition a week or more. **Pkt., 10c; 1/8 oz., 25c.**

Coreopsis - Tickseed

Will flower the first year if sown very early.

863 **MAYFIELD GIANTS**. Deep golden yellow. This variety will produce a tall and vigorous plant, having long and firm stems and large individual blossoms. Excellent for cutting. Blooms freely all summer. **Pkt., 15c; 1/8 oz., 25c.**

864 **LANCEOLATA GRANDIFLORA**. Bright yellow Cosmos-shaped flowers. **Pkt., 10c; 1/4 oz., 25c.**

865 **DOUBLE YELLOW**. This new double form is just as easy to grow as the single varieties offered above and the extra petalage adds a further charm to the flowers. **Pkt., 10c; 1/8 oz., 35c.**

DELPHINIUM. See next page.

Dianthus Species

These well-known mountain plants are for the sunny border or sunny, exposed places in the rock garden or rock wall. They flower generally after the spring flowers are over and some are very fragrant. While having all the outward characteristics of high alpine plants, the varieties we list are as friendly and easily grown as *Arabis* or *Alyssum*. Hardy perennials.

CULTURE. Easily raised from seed, germinating quickly. Plant in ordinary good soil, which contains some lime and which should be well drained.

®884 **CAESIUS**. (Cheddar Pink). Pleasing to the eye at all seasons with its tufts of grey, narrow leaves and rose-pink, fringed, spice-scented blossoms. Good for a south wall, or any dry, hot place on the rock garden. Will vary from 5 to 10 inches high. Late May to early July. **Pkt., 10c; 1/8 oz., 35c; 1/4 oz., 50c.**

DIANTHUS SPECIES—Continued

- ®885 **DELTOIDES** (Maiden Pink). A trim sturdy dwarf plant. Deep pink, crimson-centered flowers borne in abundance. Foliage forms a dense carpet. Easily grown on the rockery. Requires sunny position. 6 to 9 inches high. May and June. **Pkt., 15c; 1/8 oz., 50c.**
- ®886 **DELTOIDES, MAJOR STERN'S VARIETY.** Flowers bright crimson, with dark foliage, free-flowering. **Pkt., 20c; 1/16 oz., 50c.**
- ®887 **GRANITICUS.** Dwarf bright crimson. Of the same type as *Dianthus deltoides*. **Pkt., 10c; 1/8 oz., 15c.**
- ®888 **KNAPPI.** A unique species, producing on slender stems clusters of small yellow blossoms. Place it high in the rock garden, as it loves a dry, sunny place. **Pkt., 25c.**

ANNUAL PINKS. See page 39.

Delphinium - Hardy Perennial Larkspur

The Delphinium, or Hardy Larkspur, is one of the most valuable of all herbaceous plants. It provides many of the light and dark shades of blue colors greatly in demand, but very scarce. Many delightful shades of lavender and mauve are also present in the newest strains, all of which will be found in the choice varieties offered below.

Named Varieties, English Delphiniums

A slight variation in colors must be expected in the flowers produced from seed, but a large per cent of the seedlings will come true. The others, too, will be of good type, and more than likely some new color combinations will be found among them.

- 866 **CAMBERIA.** Deep mauve with inconspicuous eye. Blooms late. Height 5 feet. **Pkt., 35c.**
- 867 **ICEBERG.** This is the first white Perennial Delphinium to be introduced, which comes true from seed. Grows 48 inches high. The long spikes are thickly covered with pure white blooms. This variety is particularly beautiful and forms an attractive contrast to the dark and pale varieties. **Pkt., 35c.**
- 868 **LADY GWENDOLYN.** Semi-double, deep sky blue, white eye. Vigorous and mildew-proof. Height, 5½ feet. Medium. **Pkt., 50c.**
- 869 **MILLICENT BLACKMORE.** Spike of perfect form, pips very large, blue and mauve, black center. Height, 5 feet, 6 inches. Late. **Pkt., 40c.**
- 870 **MRS. TOWNLEY PARKER.** Sky blue single, white eye. Height, 4½ feet. Early. **Pkt., 40c.**
- 871 **NORA FERGUSON.** Pale blue shaded soft pink. Height, 4½ feet. **Pkt., 40c.**
- 872 **THE BISHOP.** Rich gentian blue, with white eye. Height, 4½ feet. **Pkt., 40c.**
- 873 **THE SHAH.** Deep rosy lavender, dark eye. Large, semi-double, spike long, finely proportioned. Height, 5 feet. Medium. **Pkt., 40c.**

Delphinium Mixtures of Famous English Specialists

- 874 **BLACKMORE & LANGDON'S STRAIN.** We take great pride in offering this unusually fine mixture which contains nearly all of the newest varieties developed by these famous English Delphinium specialists. Many of their varieties have earned gold medal awards in England. The seed we offer is saved from their best varieties, including their novelties and imported direct from them by us. **Pkt. 35c; 1/16 oz., 90c; 1/8 oz., \$1.60.**
- 875 **WREXHAM HYBRIDS, HOLLYHOCK STRAIN.** A fine mixture of all shades of blue, lavender and mauve. Large flowers well placed on long pyramidal spikes. Their sturdy appearance reminds one of the Hollyhock, hence the name. **Pkt., 40c; 1/16 oz., \$1.00; 1/8 oz., \$1.85.**
- 876 **CHOICE HYBRIDS.** Mixed. A choice mixture of all shades, ranging in color from pale lavender to indigo blue. **Pkt., 10c; 1/8 oz., 40c; 1/4 oz., 75c.**

Loose Spray Delphiniums

(Excellent for Cutting)

- 877 **BELLADONNA** (Cliveden Beauty). This is the freest and most continuous blooming Hardy Larkspur. The clear turquoise-blue of its flowers is not equalled for delicacy and beauty. **Pkt., 15c; 2 pkts., 25c; 1/8 oz., 60c; 1/4 oz., \$1.00.**
- 878 **BELLAMOSUM.** This is a rich, deep blue form of the popular light blue Belladonna, having the same free-blooming and other good qualities. **Pkt., 20c; 3 pkts., 50c; 1/8 oz., 60c; 1/4 oz., \$1.00.**
- 879 **CAMBRIDGE BLUE.** It is a rich clear blue, growing about 2 to 3 feet high. Excellent for cutting. **Pkt., 15c; 1/8 oz., 60c.**
- 880 **CHINESE WHITE.** This variety grows 12 inches tall, bearing elegant graceful spikes set with large white blooms. Flowers freely from June until September. It is fine for beds, borders and cutting. **Pkt., 10c; 1/4 oz., 40c.**

DELPHINIUM ANNUAL. See Larkspur. Page 41.



Delphinium, Blackmore & Langdon's Strain.

CULTURAL DIRECTIONS. Delphiniums thrive in rich, deeply cultivated soil; however, any soil, even hot and sandy, if well watered and fertilized, will give excellent results.

If the flowering spikes are cut after blooming to within 8 to 10 inches from the soil, fertilized and watered, fresh growth will then be produced, which will give blossoms. Coal ashes strewn over the crown will protect the plants from slugs through the winter and spring, also forming a natural drainage of excess moisture from the crowns.

Start seed in flats in February or March, transplant seedlings when about 1 inch high, to 4 inches apart. In May, set the plants out in the border, about 3 feet apart, where they will bloom in late summer. However, the seed can be sown at any time. The above is but one plan. Another successful method is to sow seed during July, August and September in a cold frame. When the plants are large enough to handle, transplant to 4 inches apart. When the ground has frozen hard, fill the frame with straw, cover with tar paper sash, and forget them until spring. In March, take off the tar paper sash and when the ground has thawed, remove the straw. Your plants are then ready to be moved to their permanent position.



Gaillardia "Torchlight".

Geum - Avens

Geums have become indispensable border plants. The sorts named below bloom from early summer till late autumn, and the flowers, both for their purity of color and graceful poise, are much prized for cutting. Hardy perennial.

- ®901 **DOUBLE, MRS. BRADSHAW.** The orange-scarlet flowers are very large and full, comes quite true from seeds and blooms the first year. This is a great advance over any other Geum seedling. Height, 18 inches. **Pkt., 10c; 1/16 oz., 35c.**
- ®902 **DOUBLE, LADY STRATHEDEN.** Fine, rich golden-yellow flowers, which match in other respects the popular scarlet variety, Mrs. Bradshaw, and will become as general a favorite. Height, 18 inches. **Pkt., 15c; 1/16 oz., 50c.**
- ®903 **GEUM, ORANGE QUEEN.** This very fine new variety of a shade intermediate between that of Mrs. Bradshaw and Lady Stratheden, a bright orange-scarlet, has been in large demand during the past season. **Pkt., 15c; 1/16 oz., 50c.**



Gerbera—Transvaal Daisy. See page 57.

Digitalis - Foxglove

- 889 **SHIRLEY STRAIN.** The plants attain a height of 5 to 7 feet, with spikes 3 to 4 feet long carrying flowers of giant size, ranging in color from white to dark rose and handsomely blotched and spotted cream, maroon and chocolate. **Pkt., 15c; 1/8 oz., 25c.**
- 890 **LUTZI.** Salmon shades. Height 4 feet. **Pkt., 15c.**
- GLOXINIAEFLORA.** This is a fine strain of the ordinary Foxglove, *D. purpurea*, with handsome spotted Gloxinia-like flowers on long spikes.
- 891 **WHITE.** **Pkt., 10c; 1/8 oz., 25c.**
- 892 **PURPLE.** **Pkt., 10c; 1/8 oz., 25c.**
- 893 **ROSE.** **Pkt., 10c; 1/8 oz., 25c.**
- 894 **MIXED.** **Pkt., 10c; 1/4 oz., 40c.**
- EDELWEISS.** See *Leontopodium*. Page 57.

Gaillardia - Blanket Flower

The Gaillardias are wonderful for cut flowers, blooming right through until frost, and adapt themselves to almost any kind of soil.

- 895 **"TORCHLIGHT".** Few plants can rival the perennial Gaillardia for gorgeous effect in the border from mid-summer onwards, the main drawback being a somewhat loose untidy habit. In "Torchlight", however, the stems are much stronger and stiffer than in any variety hitherto produced, making the habit much more compact and they attain a length of 2 to 2½ feet. The flowers are golden-yellow with a rich maroon-red center and often measure as much as 5 inches across. Both for the border and for cutting, this new Gaillardia will be found of the greatest value. **Pkt., 25c.**
- 896 **PORTOLA HYBRIDS.** A superb new variety bearing flowers of immense size on long stems. The colors range through shades of bronze-red with golden tips; very robust. Hardy perennial. **Pkt., 15c.**
- 897 **GRANDIFLORA.** Superb mixed hardy perennial. **Pkt., 10c; 1/4 oz., 25c.**

Gentiana - Blue Gentian

Beautiful Alpine perennials admirably suited for the border and rock gardens.

CULTURE. Gentians are slow to establish themselves, requiring special care to grow them successfully. Should be grown in a rich moist loam containing a fair amount of well-decayed cattle manure. It is advisable in all cases to mix peat or leaf mold freely with the soil before planting. Top dress with well-rotted manure in the spring. The plants should be well supplied with moisture in dry weather. Gentians do not like to be disturbed once they are established.

- ®898 **ACAULIS** (*Gentianella*). Large blue, bell-shaped flowers marked inside with yellow, rising from rosettes of glossy leaves. Leave undisturbed. As seeds are often slow to germinate, it is advisable to soak them well before sowing. Height, 4 inches. March to May. Hardy perennial. **Pkt., 25c.**
- 899 **HASCOMBENSIS.** This beautiful new Gentian produces large floriferous heads of bloom. The individual flowers are about 1½ inches across and of a bright mid-blue, slightly speckled with white towards the base. Will grow either in sun or shade, wherever it can get its roots well down into the soil, and it is fond of bottom moisture but does not like a really wet place. Received an Award of Merit from the Royal Horticultural Society of England. Grows 1½ to 2 feet high and blooms during July and August. Perennial. **Pkt., 40c.**

Gypsophila - Baby's Breath

Pretty free-flowering plants, succeeding in any garden soil. Their misty white panicles of bloom are largely used for mixing with other cut flowers.

- 904 **PACIFICA.** This perennial Baby's Breath comes into flower after the *Paniculata* varieties have passed. Will bloom the first season from seed and is perfectly hardy. The plant reaches a height of 3½ feet, and it is a veritable cloud of numerous rose-colored flowers, which are excellent in bouquets for a filler. **Pkt., 20c.**
- 905 **PANICULATA, Single.** White flowers, fine for bouquets; blooms first year if sown early. Hardy perennial. **Pkt., 10c; 1/4 oz., 25c; oz., 60c.**
- 906 **PANICULATA, Double.** Pure white, giving a very large percentage of double flowers. Hardy perennial. **Pkt., 20c; 1/16 oz., 60c.**
- ®907 **REPENS.** A pretty dwarf trailing species for the rockery. It has pinkish-white flowers and is a continuous bloomer. Hardy perennial. **Pkt., 10c; 1/8 oz., 35c.**
- ®908 **REPENS ROSEA.** A pale pink form of the above variety, both lovely in the rock garden or in the dry wall. **Pkt., 15c; 1/16 oz., 35c; 1/8 oz., 60c.**

Gerbera - Transvaal Daisy

900 JAMESONI. Large daisy-like blooms on long stems in shades of yellow and red, attracting attention everywhere. Thrives well as a pot plant or in greenhouse benches. May also be grown in the open, if provided with winter protection. Height, 18 inches. Half-hardy perennial. **Pkt., 40c.**

Helianthemum - Rock or Sun Rose

Low growing, shrubby evergreen perennial plants, loving sunshine and dry, exposed positions. Easily raised from seed, but should be sown right out in the open where they are to bloom, or grown in pots and then set out.

®909 MUTABILE. Forms a low mat of glossy foliage which is hidden by a mass of rose, pink, white and yellow flowers during early June and July. 8 to 12 inches. **Pkt., 10c; 1/8 oz., 35c; 1/4 oz., 50c.**

Heuchera - Coralbells

A very graceful hardy perennial for rockeries and borders. Foliage pale green, dwarf and compact, above which rise numerous panicles of flowers which are excellent for cutting. Easily grown from seed.

®910 SANGUINEA MAXIMA. Flowers bright coral red, very free-flowering, grows in either sun or half shade. 12 to 18 inches. June to September. **Pkt., 25c.**

®911 CHOICE HYBRIDS. Embrace every shade from white to glowing crimson. **Pkt., 15c; 1/16 oz., 60c.**

Hibiscus - Rose Mallow or Marsh Mallow

912 GIANT FLOWERING. Mixed. Showy, ornamental shrub, growing to a large size and blooming the first year from spring-sown seed. Hardy as an oak and will thrive in any soil. The flowers often measure 8 to 10 inches across, are gorgeous in colors and bloom in great profusion from late July to frost. Mixed colors. **Pkt., 10c; 1/4 oz., 35c.**

Hollyhock

913 EXQUISITE. Flowers very large, beautifully fringed with curled petals, extremely double. Each white-margined petal is adorned by a large blotch, suggesting the markings of the Pelargonium. Supplied in mixture only, containing following colors: Rose, light rose, carmine-rose, violet and dark purple. **Pkt., 15c.**

914 DOUBLE WHITE. An improved strain producing perfect double flowers. **Pkt., 10c; 1/4 oz., 50c.**

915 NEWPORT PINK. It is the finest pure pink, flowers very double. **Pkt., 10c; 1/4 oz., 50c.**

916 DOUBLE SCARLET. Very brilliant. **Pkt., 10c; 1/4 oz., 50c.**

917 DOUBLE YELLOW. A bright lemon color. **Pkt., 10c; 1/4 oz., 50c.**

918 DOUBLE MIXED. Comprises all shades. **Pkt., 10c; 1/4 oz., 40c.**

919 SINGLE HOLLYHOCKS. Mixed. **Pkt. 10c; 1/4 oz., 25c.**

Honesty - Lunaria

920 BIENNIS ALBA. (Saint Peter's Penny). Hardy perennial admired for its silvery seed pods, which are used for winter bouquets. It has a beautiful cross-shaped flower. Sow in open ground in May. Protect over winter. **Pkt., 10c; 1/4 oz., 25c.**

ICE PLANT. See Mesembryanthemum, page 42.

Lathyrus Latifolius

(Everlasting, or Hardy Sweet Pea)

Showy, free-flowering hardy perennial climbers for covering old stumps, fences, etc., continually in bloom; fine for cutting.

924 MIXED. All colors. **Pkt., 10c; 1/4 oz., 25c.**

Lavender -Lavandula Vera

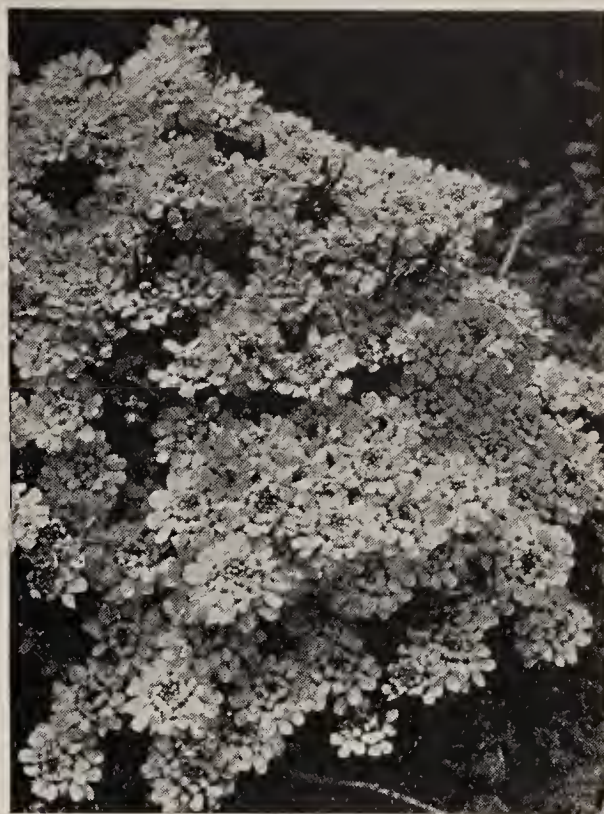
925. Well-known, sweet-scented, hardy perennials; should be extensively grown in the mixed border. 3 feet. **Pkt., 10c; 1/4 oz., 25c.**

Leontopodium - Edelweiss

® 926 ALPINUM. This world famous alpine, although a native of the European Alps, being subject to severe and sudden changes of temperature, can be grown easily from seed in ordinary garden soil. Downy star-like silvery white flowers with yellow centers rise well above a tuft of narrow hoary leaves. Grows to perfection in an elevated position in the rock garden in light, well-drained soil in full sun. Height, 6 inches. June and July. Hardy perennial. **Pkt., 35c.**

Lewisia

927 HOWELLI. For complete description see Novelty page 32. **Pkt., 35c.**



Iberis Sempervirens.

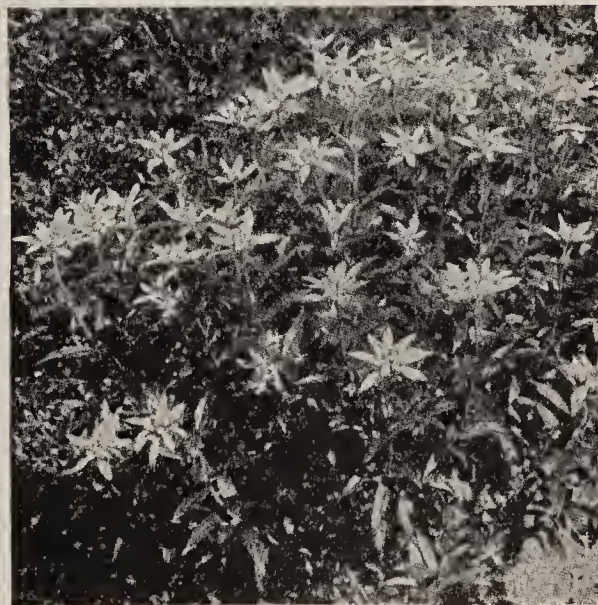
Iberis - Hardy Candytuft

Low evergreen, shrubby perennial plants which are very valuable for dry sunny places, that are well drained. The plants should be clipped over after flowering, in order to keep them compact and slightly. Easily raised from seed.

®921 SEMPERVIRENS. A splendid shrubby plant bearing dense clusters of china white blossoms, which cover almost entirely the dark, shining evergreen foliage. It is a good border plant, fine for dry walls, and the rock garden. Will grow either in a sunny or half-shaded position. 10 to 12 inches. May and early June. **Pkt., 15c; 1/8 oz., 60c.**

®922 GIBALTARICA. A very showy and large flowering variety with lilac-pink blossoms. A less hardy sort, needing protection in winter. It must be given the hottest and driest position. Prefers a light soil. 10 to 12 inches. May and June. **Pkt., 15c; 1/8 oz., 40c.**

®923 TENOREANA. A dwarf evergreen plant with white flowers turning to purple. Foliage very hairy. Requires a light sandy soil and will grow in a half-shaded position. 9 inches. May and early June. **Pkt., 10c; 1/8 oz., 25c.**



Leontopodium—Edelweiss.



Oenothera (Evening Primrose).

Meconopsis

939 MECONOPSIS REGIA. A new variety. for complete description see Novelty page 32. **Pkt., 50c.**

940 MECONOPSIS BAILEYI. This beautiful blue perennial Poppy, brought over from Tibet by Captain Kingdon Ward, throws up from its root stalk a half dozen leafy stems, 2 to 3 feet high, well furnished with broad sea-green leaves and bearing freely at their heads large four petaled blooms of a glorious sky-blue color; the effect of which is enhanced by a central zone of golden-yellow anthers. This superb plant has been accorded by the Royal Horticultural Society a First-Class Certificate and an Award of Merit. It is hardy and should soon become one of the most popular plants in cultivation. Sow in pans or boxes, in a cold frame. Transfer to small pots, when large enough, and when the plants are well established put into deep loam and leafy soil in a moist, well-drained, half-shady position. **Pkt., 50c.**



Platycodon Grandiflorum.

Liatris - Blazing Star

928 SCARIOSA. Spikes of deep purple flowers, 3 to 4 feet. August and September. Hardy perennial. **Pkt., 15c.**

Lilium, Regale

929 THE REGAL LILY. It is absolutely hardy and is excellent for forcing. The flowers are white, slightly suffused with pink, with a beautiful shade of canary-yellow at the center, and extending part way up the trumpet. It is delightfully perfumed, reminding one of the jasmine, and lacking the heavy, oppressive odor of most lilies. Blooms out-of-doors early in July, and seedling bulbs will flower the second year. Lift the bulbets in fall and replant to greater depth in their permanent location. **Fkt., 15c; 1/8 oz., 35c.**

Linum - Flax

Showy, free-flowering plants with feathery foliage, suitable for dry, sunny borders or rock gardens. Will not thrive in heavy, damp soils.

®930 ALPINUM. A rare species from the Dauphine, of prostrate growth, with showers of pale blue blossoms throughout the summer. Height, 6 inches. Hardy perennial. **Pkt., 25c.**

®931 FLAVUM. Gay yellow flowers in loose clusters. Foliage dark green, forming a dwarf neat bush, especially attractive in rock gardens or as a dwarf group in the perennial border. Thrives in a sunny situation in light rich soil. Hardy perennial. **Pkt., 15c; 1/8 oz., 60c.**

®932 NARBONNENSE. Forms a spreading clump of attractive foliage with white eye. A very useful perennial for the rockery. Height, 18 inches. **Pkt., 15c; 1/8 oz., 60c.**

®933 PERENNE. Bright blue flowers. Hardy perennial. 18 inches. **Pkt., 10c; 1/4 oz., 25c.**

Lupinus - Polyphyllus

Most beautiful hardy border plants producing tufts of soft green foliage, from which arise in continuous succession the stately spikes of bloom. Do not disturb plants after they are once established. June and September.

934 DOWNER'S HYBRIDS. Perpetual flowering new hybrids. **Pkt., 15c; 1/4 oz., 45c.**

935 BLUE. **Fkt., 10c; 1/4 oz., 25c.**

936 PINK. **Pkt., 15c; 1/4 oz., 40c.**

937 SUPERB MIXED. **Pkt., 10c; 1/4 oz., 25c.**

Lychnis

A fine old-fashioned flower, bearing large heads of brilliantly colored flowers, that liven up the border during summer and early autumn. Hardy perennial.

938 VISCARIA SPLENDENS. Brilliant red. **Pkt., 10c; 1/4 oz., 25c.**

Myosotis - Forget-Me-Not

®941 PALUSTRIS SEMPERFLORENS. An ever-blooming variety, beginning to flower in May and continuing till autumn. Large clear, blue flowers in pretty spray. Perennial. **Pkt., 10c; 1/8 oz., 50c.**

Nepeta - Catnip

®942 NERVOSA. A splendid plant for the larger type of Rock Garden and much superior for this purpose to Nepeta Musini. The flowers are of a clear light blue and have a brighter and more attractive effect than the latter. The plant continues in bloom from midsummer until the early autumn. Thrives in any light garden soil in a sunny situation. Hardy perennial. **Pkt., 20c.**

Oenothera - Evening Primrose

The Oenotheras are chiefly used in the rockery and border. All require a well-drained light soil intermixed with well-decayed manure. They are apt to perish in winter if grown in heavy, damp soils.

®943 MISSOURIENSIS. A low species with prostrate ascending branches. A profuse bloomer. Solitary yellow flowers often 4 inches across. Height, 10 inches; in bloom from June until August. Hardy perennial. **Pkt., 15c; 1/8 oz., 65c.**

TUFTED PANSIES. See Viola, page 61.

Pentstemon - Beard Tongue

A beautiful perennial plant producing freely large spikes of handsome tubular flowers in almost every shade and color.

944 GLOXINIODES, "SENSATION". As a bedding plant this takes rank with the Petunia, Phlox, etc. It grows about 30 inches high, every branch being a spike of large, Gloxinia-like flowers in a very wide range of bright colors, including rose, red, carmine, cherry, pink, lilac, purple, etc. **Pkt., 15c; 2 pkts., 25c.**

PETUNIA. See page 44.

Perennial Poppies

Oriental Poppies (*Papaver Orientale*)

These are highly decorative. Their huge, brightly colored flowers are borne profusely during May and June. Sow where to bloom. Height, 3 feet.

951 THE FELTHAM. Some sixteen years ago it was originated at the Feltham grounds in England; a new departure in Oriental Poppies, and by dint of continual selection, succeeded in fixing a distinct and valuable strain. It has all or nearly all of the various shades of the type, scarlet, orange, apricot, etc., but with no black blotches at the base of the petals. The flowers are thus all self-colored. **Pkt., 25c.**

952 APRICOT QUEEN. Soft apricot-pink. **Pkt., 20c.**

953 BEAUTY OF LIVERMORE. Crimson, black blotch. **Pkt., 20c.**

954 MRS. PERRY. Orange-apricot. **Pkt., 20c.**

955 ORIENTALE, PERRY'S WHITE. The flowers are a fine satiny white with a crimson-maroon blotch at the base of each petal. **Pkt., 25c.**

956 QUEEN ALEXANDRA. Bright rosy salmon, with crimson blotch in center. **Pkt., 20c.**

957 SALMON QUEEN. Lovely salmon-yellow. **Pkt., 20c.**

958 ORIENTALE. Very hardy, producing showy scarlet flowers. **Pkt., 10c; 1/8 oz., 25c.**

959 ORIENTALE HYBRIDS. Mixed colors. **Pkt., 10c; 1/8 oz., 40c.**

DOWN THE PRIMROSE PATH

Primula - Hardy Primrose

The Primrose is a splendid plant for naturalizing near shrubs or shaded nooks and moist places on the rockery. Primroses are not at home in the open herbaceous borders, but thrive in sheltered, lightly wooded places, where they may grow among the Violets, Hepaticas and Bloodroot. They generally establish themselves in damp and shaded positions which are generally most difficult to fill. Perennial.

966 AURICULA ALPINA, TRIUMPH. The growth is very attractive, forming in a rosette, broad, thick foliage. The flower stalks rise to a height of 6 to 8 inches, bearing heads of bloom of various colors, exceedingly fragrant. Will grow in sun or half shade. Protect in winter. In flower during late April and May. **Pkt., 25c.**

967 CASHMERIANA. Large purplish-blue flowers in globe-shaped clusters. Foliage beautiful. Thrives in moist loam having good drainage; prefers a half-shaded situation. Blooms early. 8 to 12 inches high. **Pkt., 35c.**

968 CORTUSOIDES. Broad soft foliage in a rosette close to the ground. Flowers in early summer, deep rose; prefers light, rich, well-drained soil, in a half-shaded position in the border or rockery. 6 to 10 inches high. **Pkt., 25c.**

969 VULGARIS. The old English Primrose with pale yellow flowers, 6 to 9 inches high. Grows in half shade. Mid-April to June. **Pkt., 15c; 1/16 oz., 40c; 1/8 oz., 65c.**

Polyanthus (Bunch Primrose)

Showy, free-flowering perennials that should be used largely in borders, wild gardens and rockeries. If your soil is light and dry and you have no shaded situations, do not try to grow the true Primroses as offered above, but confine your efforts to the Polyanthus that we list below. The Polyanthus or Bunch Primrose will thrive in full sun if they have some moisture at the root; if not, they must be given the comfort of partial shade.

970 GIANT BRIGHT EYES. A variety distinct because of the pleasantly waved formation of the petals. The flowers, rich yellow in color, each having a large bright orange eye. **Pkt., 35c.**

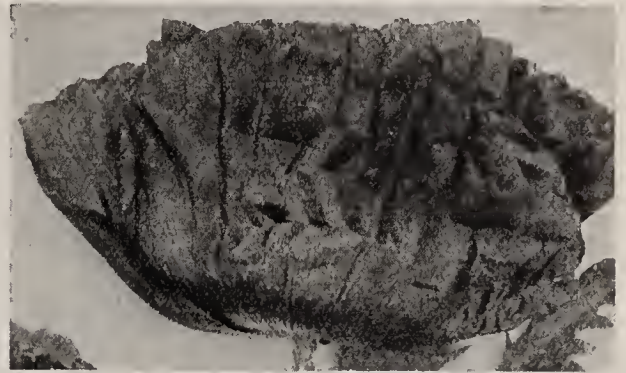
971 GIANT PRIMROSE. This variety has flowers which are very much larger than those of the ordinary Polyanthus, carried well up on very stout stems. The color is that of the common wild Primrose, with a bright orange eye. Giant Primrose reproduces perfectly true from seed. **Pkt., 35c.**

972 MRS. BERKELEY'S STRAIN. The seed of this strain is saved only from the largest flowers having the best form and especial pains are taken to ensure as wide a range of colors as possible, including brilliant shades of red, orange and bronze, as well as the richest maroons and yellows, and pure white. **Pkt., 25c.**

973 MUNSTEAD STRAIN MIXED. This strain of Bunch Primroses has been perfected in the gardens of Miss Jekyll of England. The flowers show shades of yellow, from cream to dark orange. 6 to 10 inches. Late April and May. **Pkt., 25c.**

974 VERIS (Cowslips). Mixed shades of yellow, very fragrant. 6 to 10 inches. Late April and May. **Pkt., 15c.**

Our Primroses are pure strains from the best English growers.



Oriental Poppy.

Iceland Poppies - *Papaver Nudicaule*

Graceful light green tufts of foliage; large gaily colored flowers on stems 1 foot tall. Bloom for many months.

960 FAKENHAM HYBRIDS. A blend of new tints, such as apricot, biscuit, mauve, deep tangerine, all shades of lemon and many others. **Pkt., 20c; 1/16 oz., 65c.**

961 COONARA PINK. Rose-pink suffused with salmon-pink. **Pkt., 15c; 1/8 oz. 60c.**

962 EL MONTE. Tangerine orange. **Pkt., 15c; 1/16 oz., 40c.**

963 SUNBEAM MIXED. Long stems and large flowers. **Pkt., 10c; 1/8 oz. 25c.**



Potentilla.

Potentilla

A hardy perennial trailing plant which covers the ground rapidly, sending out many roots. Potentillas resemble the strawberry plant, especially in the manner of growth and the foliage.

964 NEPALENSIS, MISS WILLMOTT. Flowers salmon-pink, very freely produced. **Pkt., 15c; 1/16 oz. 35c.**



Primula Cashmeriana.



Pyrethrum Hybridum.

Perennial Scabiosa

977 NEW GIANT HYBRIDS (Isaac House Strain). A wonderful improvement in perennial Scabiosa. They are more vigorous in their plant growth, having longer and stouter stems with the average size of flower more than a third larger than the best strain of Caucasica we have heretofore seen. The outer edges are ruffled and fringed and the colors range from a very light lavender to a dark blue. **Pkt., 25c.**

978 COLUMBARIA. This is a South African form of the European Scabiosa and although reminiscent of Caucasica, is a distinct type. It can be briefly described as a hardy, low growing perennial with fine, light-green foliage, some of the flowers measuring from two and a half inches across with short, compact petals, borne on long, slender, but strong stems. We offer this choice perennial in a beautiful pink shade which is a new color in Perennial Scabiosa. **Pkt., 20c.**

979 CAUCASICA BLUE PERFECTION. 3 feet. Especially valuable for cutting, the blooms lasting an unusually long time in water. **Pkt., 15c.**

980 CAUCASICA ALBA. A large, pure white variety; the flowers, 3 to 4 inches across on long stems, are exquisite for vases, lasting a long time. **Pkt., 15c.**



Stokesia Cyanea.

Phlox, Perennial

945 DECUSSATA MIXED. Contains all the new brilliant colors, large flowering. **Pkt., 15c; ¼ oz., 60c.**

Physalis - Chinese Lantern Plant

946 FRANCHETI. An ornamental plant, forming dense bushes about 2 feet high, producing freely its bright orange-scarlet lantern like fruits, which can be cut and dried for winter bouquets; highly interesting. Perennial. **Pkt., 10c; ¼ oz., 35c.**

Physostegia - False Dragonhead

One of the prettiest hardy perennials, and gaining in popularity as it becomes better known. It forms dense bushes 3 to 4 feet high, bearing freely during the summer months spikes of delicate rosy lilac or white tubular flowers not unlike a gigantic heather.

947 VIRGINICA. Rose-lilac. **Pkt., 10c; ½ oz., 50c.**

Platycodon - Balloon Flower or Jap. Bellflower

One of the best hardy perennials, producing very showy flowers during the whole season. They form large clumps and are excellent for planting in permanent borders or among shrubbery; easily raised from seed, which begins blooming in August if sown outdoors in April.

948 GRANDIFLORA BLUE. Large deep blue flowers. **Pkt., 10c; ¼ oz., 40c.**

949 GRANDIFLORA ALBA. Pure white. **Pkt., 10c; ½ oz., 40c.**

950 MARIESI. A beautiful dwarf species, with broad, thick foliage and large, deep violet-blue flowers on 12-inch stems in great profusion throughout the entire summer. Plant in front of the border or in the rock garden. **Pkt., 15c; 1/16 oz., 65c.**

Pyrethrum - Painted Daisy

965 HYBRIDUM. Single and double varieties, mixed. Hardy perennial, bearing large daisy-like flowers, ranging in color from white to deep red, with bright yellow centers; blooms in May and June, and again in the fall; and is one of the most graceful and long-lasting cut flowers. 2 feet. **Pkt., 15c; ½ oz., 50c.**

Saponaria - Rock Soapwort

975 OCYMOIDES SPLENDENS. Elegant trailing perennial, with pretty rich rose-colored flowers; suitable for rockeries. **Pkt., 10c; ¼ oz., 30c.**

SHASTA DAISY. See Chrysanthemum, page 54.

Saxifraga - Rockfoil

Saxifrages thrive in deep gritty loam and sunshine. Sow the seed upon the surface of a pot or flat of very fine sandy soil, not covering it at all. Cover with paper or boards to insure darkness and to check the evaporation of moisture. Perennial.

976 SPECIES MIXED. This mixture contains both the Mossy and the Encrusted species in colors of white, blush, pink or crimson. 6 to 15 inches. May and June. **Pkt., 25c.**

Stokesia - Cornflower Aster

981 CYANEA. This is not new, but is a rare and beautiful hardy perennial. The plant grows about 24 inches high, each bearing from 20 to 30 handsome lavender-blue cornflower-like blossoms; in bloom from July till frost. One of the choicest subjects for the hardy border and indispensable for cutting. **Pkt., 10c., ½ oz., 25c.**

Sweet Rocket - Hesperis

Old-fashioned garden plants; growing about 3 feet high, bearing spikes of showy fragrant flowers. Excellent for naturalizing among shrubbery or for planting in a permanent border. Hardy perennial.

982 VIOLET. **Pkt., 10c; ¼ oz., 20c; oz., 60c.**

983 WHITE. **Pkt., 10c; ¼ oz., 20c; oz., 60c.**

Sweet William - Dianthus Barbatus

A well-known, old-fashioned perennial which has long been used for beds and borders. It is one of the most desirable plants in the garden, is easily grown, very hardy and free-flowering, continuing in bloom for several weeks. The flowers are borne in heads or clusters, sweet scented, in brilliant colors ranging from pure white through pink, crimson, etc., to deep purple. Most of them have two colors in the same flower. They are borne on stiff stems in graceful profusion and the clusters are often 3 to 4 inches across. Useful for cutting. Height, 1½ feet.

984 NEWPORT PINK. A distinct new color which originated in one of the far-famed gardens at Newport, R. I. In color it is what florists call watermelon-pink or salmony-rose. Strikingly brilliant and beautiful; the flowers are borne in massive heads on stems 18 inches high. For mid-season mass bedding it has no equal. It is also very effective for cutting. **Pkt., 10c; ¼ oz., 35c.**

SWEET WILLIAM—Continued

985 HOLBORN GLORY. This strain is a large-flowered selection of the auricula-eyed section, the most beautiful and admired of all Sweet Williams. The individual flowers and trusses are of extraordinary size, while the range of color, all showing a clear, white eye, is truly superb. **Pkt., 10c; ¼ oz., 25c.**

986 SCARLET BEAUTY. Intense scarlet. **Pkt., 10c; ¼ oz., 35c.**

987 DOUBLE MIXED. A splendid strain of this beautiful perennial, comprising a great variety of excellent shades. **Pkt., 10c; ¼ oz., 35c.**

Thalictrum - Meadow Rue

Handsome dark foliage resembling the Columbine. The flowers are borne in feathery clusters. Very useful in making bouquets. Its light and graceful habit makes it very valuable in the perennial border or when placed among the shrubbery.

988 DIPTEROCARPUM. A handsome herbaceous plant, with loose sprays of clear rosy-purple with lemon-yellow stamens and anthers. The plant is of strong growth, about 4 to 5 feet high. The flowers are produced during August and September. Thrives best in a poor soil in a sunny position. **Pkt., 15c.**

Tritoma

(Red-hot Poker, or Torch Lily)

989 HYBRIDA. The introduction of new, continuous flowering Tritomas has given them a prominent place among hardy bedding plants. It is not generally known that they are readily grown from seed, many flowering the first year if sown early. Of course, for immediate results it will be better to get plants, but raising them from seed is highly interesting. Perennial. **Pkt., 15c; 2 pkts., 25c.**

Trollius - Globe Flower

990 LEDEBOURI, GOLDEN QUEEN. The plant is very vigorous, grows from 3 to 4 feet in height, but its chief value lies in the size of the flowers, the intense orange color, the extreme floriferousness and the constancy with which it flowers in autumn as well as early summer. It comes practically true to type from seed. Most Trollius are rather uncertain to raise from seed when sown in the spring, but one of the greatest recommendations this introduction has is that the seed germinates freely when sown in spring. Seed germinates slowly. Soak in hot water for 5 to 6 hours before sowing. Hardy perennial. **Pkt., 35c.**

991 MIXED VARIETIES. Saved from a collection of the newest varieties, ranging in color from pale yellow to deep orange; on strong stems 2 feet high. Hardy perennial. Grows best in a half-shaded moist situation. May and June. **Pkt., 15c.**

Tunica - Coat Flower

992 SAXIFRAGA. A low growing hardy perennial with narrow dark green foliage, above which rises a multitude of small pale pink blossoms. Grows about 6 inches tall, forming patches a foot or more across. Makes an excellent carpeting plant both for the rockery and as an edger for the border. Full sun. June and July. **Pkt., 10c.**

Valeriana - Garden Heliotrope

Showy hardy perennial; forms small flowers in dense clusters. Very fragrant.

993 CRIMSON. **Pkt., 10c; ½ oz., 25c.**

Verbascum - Mullein

994 PHOENICEUM HYBRIDS. A hardy perennial with spikes of white, pink, purple, mauve and blue flowers. Unusually attractive for cutting and as a showy plant in the hardy border. Will bloom from June to September. Height, 2 feet. **Pkt., 10c.**

Veronica - Speedwell

Hardy perennials, suitable for the border and rock gardens, of easy culture, thriving in any good ordinary soil. Cut back all faded flowers to promote new growth and additional blooms.

995 INCANA. A white, woolly plant; flowers numerous; color ageratum blue. Useful in the rockery or for edging paths and flower beds. Height 1 foot. July and August. **Pkt., 15c.**

996 SPICATA. An elegant border plant, growing about 1½ feet high, producing long spikes of bright blue flowers in June and July. Hardy perennial. **Pkt., 15c; 1/16 oz., 60c.**

997 TEUCRIUM, ROYAL BLUE. Prostrate foliage, brilliant blue flowers. 6 to 12 inches. May and June. A delightful perennial for the rockery or dwarf border. **Pkt., 15c.**

Viola Odorata

(Sweet-scented English Violet)

1002 PRINCESS OF WALES. Hardy violet, grows anywhere. Large, single fragrant blooms. **Pkt., 25c.**



Trollius, Golden Gem.

Viola Cornuta - Tufted Pansies

A tufted plant of strong growth bearing a profusion of faintly scented flowers the size of small Pansies. Valuable for the border or rock garden. Grows in sun or half shade, 5 to 8 inches high. If the plants are sheared several times during the season so that the flowers do not go to seed, they will bloom from late April until frost. Perennial.

998 APRICOT. A beautiful addition to this very popular type of Violas, a rich apricot shade, tinged orange towards the center. Very effective in the rock garden. **Pkt., 25c.**

999 JERSEY GEM. This variety of recent introduction possesses the dwarf and everblooming habits of the Viola Cornuta or Tufted Pansies and the vigorous, bushy growth and roundish foliage of the finest English bedding varieties. Color is pure, rich violet and slightly perfumed. **Pkt., 25c.**

1000 ROSY GEM. Dwarf compact habit, color rosy pink. **Pkt., 15c.**

1001 BEDDING MIXED. The plants are more hardy than Pansies, and of vigorous growth, forming deep-rooted compact tufted clumps. Planted in masses or lines they form perfect mats covered with myriads of flowers. **Pkt., 20c.**



Viola, Jersey Gem.

Flower Seeds for Greenhouse Culture



Calceolaria "Albert Kent" Hybrids.



Primula Sinensis.



Ampelopsis (Boston Ivy).

Calceolaria

1010 "ALBERT KENT" HYBRIDS. The warm welcome which was accorded to the Calceolaria, Albert Kent, on its introduction a few years ago has been extended to these beautiful hybrids. We offer them in a mixture which will produce ten to twelve varied colorings, possessing all the valuable characteristics of the parent variety. The plants bear immense trusses of bloom throughout the summer. **Pkt. 50c.**

Cyclamen

1011 PERSICUM GIGANTEUM MIXED. One of the finest strains of large flowered English Cyclamen which comprises the best shades and colors, varying through the various shades of white, pink, crimson and dark red. Greenhouse perennial. **Pkt., 35c.**

Smilax

1016 In many respects Smilax is the most useful, and it is certainly one of the most graceful climbers which adorns the greenhouse or conservatory; for bouquets and floral decorations it is indispensable. $\frac{1}{4}$ oz., 25c; oz., 75c; pkt., 10c.

Primula - Primrose

The charming and beautiful Chinese Fringed Primroses, the Obconica varieties and the Malacoides or Baby Primrose are among the most important winter-blooming pot plants. The seed we offer is of the highest quality and has been saved from the best strains in England. Seed sown in April will bloom during early winter; August for spring blooming. Sow in shallow pans, in soil consisting of part sand and humus or leaf mold worked through a fine sieve and allow for good drainage. Greenhouse perennial.

Primula Sinensis - Chinese Primrose

1012 GIANT-FLOWERED MIXED. A grand advance on the old type. Flowers very large and solid. **Pkt., 35c.**

Primula Obconica

1013 GIGANTEA MIXED. Splendid range of colors; flowers very large, growth vigorous. **Pkt., 35c.**

Primula Malacoides - Giant Baby Primrose

Primula Malacoides should not be sown as early as Primula Sinensis or Primula Obconica, but should be started about June for blooming in early winter.

1014 SNOW QUEEN. (New). Extremely floriferous, being a vast improvement on the Primula Malacoides Alba hitherto grown, the flowers being much larger and the purest white. The delicate beauty of Snow Queen renders it a splendid subject for conservatory decoration. **Pkt. 35c.**

1015 Malacoides Fimbriata. Lovely pink flowers, delicately fringed. **Pkt. 35c.**

The following varieties which are fully described throughout the Annual and Perennial flower seed pages, can also be grown in the greenhouse. These will furnish you with beautiful cut flowers, as well as pot plants.

ANEMONES, see page 52.

BEGONIAS, see page 35.

CALENDULAS, see page 38.

CANDYTUFT, see page 38.

CARNATIONS, see page 38.

CORNFLOWER, see page 39.

DIDISCUS see page 40.

GERANIUMS see page 40.

GERBERAS see page 56.

GYPSOPHILAS, see page 56.

LARKSPUR, see page 41.

NEMESIA, see page 43.

PANSIES, see page 43.

SNAPDRAGONS, see page 36.

SALPIGLOSSIS, see page 46.

SCHIZANTHUS, see page 46.

SWEET PEAS, see page 47.

VINES—Climbers and Trailers

Ampelopsis - Boston Ivy

1020 VEITCHI. The leaves are olive green turning to scarlet in autumn. Perfectly hardy; grows 30 to 60 feet. It clings firmly and permanently to walls, trees, etc. Very desirable. **Pkt., 10c.**

Balsam Pear and Apple - Momordica

Tender annual climbers bearing ornamental fruits of various colors. They grow 10 to 12 feet high. Have light green foliage, rather large leaves and are very graceful.

1021 BALSAM APPLE. Like Balsam Pear with foliage smaller and smaller fruits, very nearly round. Green striped when young, afterwards becoming scarlet. $\frac{1}{4}$ oz., 25c; pkt., 10c.

1022 BALSAM PEAR. Fruits oblong, pointed and warted, first green, afterwards changing to bright red. When fully ripe, burst open exposing the seed. Largely used for putting in alcohol or whiskey and used as a poultice or for cuts, bruises and wounds. $\frac{1}{4}$ oz., 25c; pkt., 10c.

Canary Bird Flower

1023 CANARY BIRD FLOWER. A beautiful climber with small beautiful, rich yellow flowers and dark foliage, the leaves resembling palm leaves. It is a quick grower attaining a height of 12 feet. Blooms profusely from July until frost. **Pkt., 10c.**

Cardinal Climber

1024 The most brilliant, beautiful and distinct annual climber introduced for many years. Rapid grower with branching habit; flowers all summer; cardinal-red clusters, 15 to 25 feet. **¼ oz., 35c; pkt., 10c.**

Cobaea Scandens

An attractive, rapid growing climber with large bell-shaped flowers which at first are green but gradually change to a deep violet-blue. The foliage is handsome, dark green; a great profusion of tendrils is produced and it is valuable for arches, trellises, arbors and attains a height of 30 feet in a season.

1025 Blue. ¼ oz., 25c; pkt., 10c.

Cypress Vine

A beautiful rapid growing climber with delicately cut vivid green foliage and star-like flowers which make a most effective contrast with the leaves. Annual.

Seed is usually sown outdoors where the plants are to remain, covering 1½ inches deep. About 15 feet high.

1026 MIXED. Mixed scarlet and white. ¼ oz., 25c; pkt., 10c.

Gourds

1027 DIPPER. Fruit makes an excellent dipper and may be used for wren's nest. **Oz., 25c; pkt., 10c.**

1028 MIXED. Mixture of small sorts including many curiously shaped and ornamental sorts. **Oz., 25c; pkt., 10c.**

Hyacinth Bean - Dolichos Lablab

A beautiful tender annual bearing large clusters of purple and white flowers which are afterwards followed by ornamental purple seed pods. Height, 15 to 20 feet.

1029 MIXED COLORS. Oz., 25c; pkt., 10c.

Ice Plant - Mesembryanthemum

®1030. Valuable for hanging baskets, rockwork, vases and window boxes. It is curious growing, the leaves and stems appearing as though covered with ice crystals. A tender trailing annual growing about 6 inches high and the vines will extend 2 feet long. ¼ oz., 25c; Pkt. 10c.

Mina Lobata - Flag of Spain

1031. An attractive and free-flowering half-hardy climbing annual. At first the buds are a vivid red, changing to orange-yellow, flowers creamy white. **Pkt., 10c.**

Moonflowers

These beautiful climbers grow rapidly and will reach a height of 20 to 30 feet. For best results, start seeds indoors and set plants out when weather has become warm. Soaking the seed in warm water for 24 hours is beneficial.

1032 GIANT PINK HYBRID. A beautiful lavender-pink. Large flowers, large sub-tropical foliage. ½ oz., 35c; oz., 60c; pkt., 10c.

1033 SKY BLUE. Large sky blue flowers. Blooms profusely. A strong-growing vine, excellent for porches, garden houses, etc. Blooms late September and October. ¼ oz., 50c; pkt., 10c.

1034 GIANT WHITE. The vines are just covered with immense white flowers, opening in the evening and remaining open during cloudy days. ½ oz., 30c; oz., 50c; pkt., 10c.

Morning Glories

The well-known and popular hardy annual climbers which produce large trumpet-like flowers of many brilliant colors. Seed is sown where they are to bloom, thinning as may be desired. Height 10 to 15 feet.

1035 ROSE MARIE. We have pleasure in offering an early, free-flowering double form of Ipomoea. Flowers are a beautiful shade of deep rose of double and semi-double form. We predict Rose Marie will become as popular as Ipomoea Heavenly Blue Morning Glory is today. ¼ oz., 25c; pkt., 10c.

1036 HEAVENLY BLUE. Immense flowers of bright sky blue, very beautiful. ¼ oz., 50c; pkt., 10c.

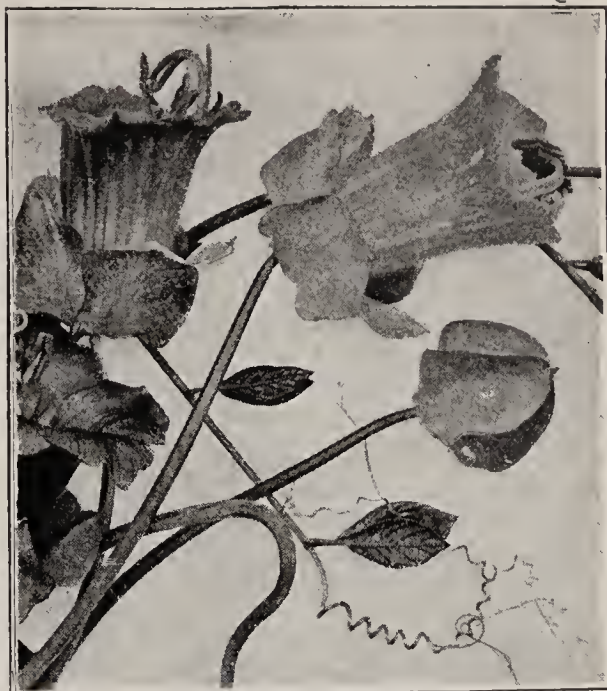
1037 JAPANESE. Flowers of largest size, often 3 inches across, in magnificent colors and brilliantly marked. **Oz., 25c; pkt., 10c.**

NASTURTIUM. (Tall). See page 43.

Thunbergia - Black Eyed Susan

An attractive climber growing 4 to 6 feet long which is largely used for garden vases, window-boxes, hanging baskets, etc. Flowers are about 1 inch across, being of creamy white, buff and orange colors with very dark brown throats; very free-blooming. A very attractive plant both in foliage and in abundance of flowers.

1038 MIXED. Colors, creamy white, buff and orange. ¼ oz., 30c; Pkt., 10c.



Cobaea Scandens.



Thunbergia.



Morning Glories, Heavenly Blue.

GENERAL LIST OF GRASS SEEDS

Prices on all Grass Seeds are subject to fluctuations. We will be glad to quote you firm prices on request. Orders entrusted to us will be filled at the lowest price on the day received.

ACME Brand FARM SEEDS

Tested to Give Best Results

Our Seed Testing Laboratory is qualified under the rules of the Official Analysts Association of North America.

Insist on
ACME Brand SEEDS

TIMOTHY - *Phleum pratense*

It is the most desirable of all grasses for hay but should not be grazed as the tramping of cattle hoofs causes it to die. In this section Timothy is best suited to low, flat or alluvial soils where there is a fair amount of moisture but does not grow well in water sogged soil. Requires alone, 1 pk. per acre; if with Clover, 8 lbs. Timothy and 5 to 6 lbs. of Clover.

RED TOP OR HERD'S GRASS - *Agrostis alba*

Particularly suited to low and wet situations and affording a splendid pasturage and fair crops of hay. Ripens at about the same time as Timothy and excellent to sow with this grass if pasturing of meadows is contemplated. It is also valuable to sow on alluvial land liable to wash and when once established and some care taken will last indefinitely.

Fancy (free of chaff) requires 8 to 10 lbs. alone or 3 to 4 lbs. in mixtures per acre.

Unhulled (seed with hull on)—1 bu. per acre.

KENTUCKY BLUE GRASS - *Poa pratensis*

A well-known pasture grass which grows well on any stiff or loamy soil in central or northern states. It is indigenous to sections of Ohio, Kentucky and Missouri and in these sections is the main grass for pasture or for stock grazing. There is no better or more nutritious pasturage.

It is also largely used for lawns and when once established, lasts indefinitely. It is slow starting, however, and for lawns should be mixed with other quick growing short grasses. For pastures, sow 1½ to 2 bus. per acre; for lawns, 3 to 4 bus. per acre.

CANADIAN BLUE GRASS - *Poa compressa*

Closely akin to Kentucky Blue Grass but not nearly so valuable for general purposes. Canadian Blue Grass is particularly suited to high, dry situations and rocky soil, also under trees where the soil is more or less impoverished and very dry. It does not make a very good turf as it produces a large amount of stems and comparatively little forage. Valuable for mixtures and upland soil for pasture.

ORCHARD GRASS - *Dactylis glomerata*

Particularly suited to upland, loamy or moderately stiff soils. It ripens 3 weeks ahead of Timothy and is excellent to sow with Red Clover. Usually yields two crops and is one of the most valuable grasses for both pasturage and hay.

Requires 1½ to 2 bushels per acre; if with Red Clover, 1 to 1½ bushels of Orchard Grass to 5 to 6 pounds of Red Clover. For seed the same quantity of Clover and ¾ of a bushel of Orchard Grass.

MEADOW FESCUE - *Festuca elatior*

A most valuable grass for permanent pasture. It grows best on low, damp soil, but does not attain its full productive power till the second or third year. (Called Evergreen Grass in some sections.)

Requires one bu. per acre, if alone. In mixture, from ½ to ¾ of a bu.

TALL MEADOW OAT GRASS

(*Arrhenatherum elatius*)

A very fine grass which is suitable for upland soils and especially valuable for mixture with Orchard Grass. It ripens about the same time and forms a better sod. Cut when in bloom it is very nutritious and it affords wonderful amount of pasturage. Requires alone 1½ to 2 bus. per acre; in mixture from ½ to ¾ of a bu.

BROME GRASS - *Bromus inermis*

A hardy perennial, which can be used for meadow or for pasture. The seed may be sown from spring to fall. It is especially valuable for pasture, the vigorous root stalks forming a firm sod. Brome Grass is more drought resistant than ordinary eastern meadow grasses and does not require a heavy good soil, but thrives on poor land. The seed is usually sown broadcast at the rate of 20 lbs. per acre.

PACEY'S IMPROVED SHORT RYE GRASS PERENNIAL RYE GRASS - *Lolium perenne*

A quick growing grass which is most suitable for mixtures, pastures, hay and lawns. Succeeds well on almost any soil not water sogged and affords good, quick, nutritious grazing. If alone, requires 1½ bus. per acre. In mixture, from 2 to 3 pks. per acre.

ITALIAN RYE GRASS - *Lolium italicum*

An annual somewhat similar to Perennial Rye Grass but little quicker maturing. It is especially liked in Southern States and in most of the low Delta country yields good crops of very early hay. Valuable for mixture or quick hay crop. Requires same quantity per acre as Perennial Rye Grass.

AMERICAN GROWN RYE GRASS

Also known as Western Rye Grass. It is inclined to be an annual and is especially valuable for use in lawn mixtures; it is a quick growing grass and succeeds well on almost any type of soil.

ROUGH STALKED MEADOW GRASS

(*Poa trivialis*)

A splendid grass of spreading, thickly matting, stoloniferous rooted species; leaf blades narrow, flat and dark green in color. Forms a fine turf where few other grasses can exist and especially adapted for shady places and under trees. For pastures, sow 1½ to 2 bus. per acre; for lawns, 4 to 5 bus. per acre. (14 lbs. per bu.)

RED OR CHEWINGS FESCUE

(*Festuca rubra*)

A creeping-rooted species, forming a close and lasting turf and especially adapted for dry, sandy soils. It resists extreme drought and thrives on poor soils; also valuable for shady places in lawns as well as for golf-courses and particularly on putting greens. 40 lbs. to the acre. On putting greens sow 8 lbs. to 1000 square feet. (24 lbs. per bushel.)

SHEEPS FESCUE - *Festuca ovina*

An extremely valuable pasture grass for high, dry situations or rocky or gravelly soils. Affords excellent grazing and withstands adverse conditions when many other varieties burn out. Foliage of fine texture and it has a tendency to grow in tufts so close grazing is desirable. Especially valuable for mixture.

Requires alone 1½ to 2 bus. per acre. In mixture ½ to 1 bu.

SPECIAL MIXTURES

for

**GOLF COURSES, AIRPORTS AND
LANDING FIELDS, POLO GROUNDS,
ATHLETIC FIELDS, LAWNS,
PASTURE and MEADOWS**

We put up special mixtures for all purposes and will be very glad to estimate on any special mixture that may be required.

We offer mixtures which can be relied on to be the very highest quality and prices are very reasonable. See page 1 for descriptions.

Constant experimenting has shown that a heavy stand and prolonged growth can be obtained only by sowing a mixture of several kinds of grass seeds. In our special mixtures we use varieties best suited to the different soils and purposes for which they are recommended. Those for permanent pasture are composed of grasses that succeed each other in growth, thus furnishing good grazing from early spring until late fall.

Clover, Grass and Grain Seeders, see page 91.

SOWING CHEAP SEEDS TO SAVE MONEY IS LIKE STOPPING THE CLOCK TO SAVE TIME.

GENERAL LIST OF GRASS SEEDS—Continued

CRESTED DOGSTAIL - *Cynosurus cristatus*

Very much esteemed for lawns and mixtures in many of the Northern States, producing a quick growth of short grass, which is, however, of little forage value and has many stems.

BERMUDA GRASS - *Capriola dactylon*

A valuable grass for the South and for tropical climates; will not endure frost. Sow 5 to 8 lbs. per acre.

ASTORIA BENT - *Agrostis tenuis*

Same variety as Rhode Island and Colonial Bent.

An excellent all around bent for lawns, greens, parks and playing fields; grows on wide range of soils; spreads mainly by underground root stalks or rhizomes, making a deep reinforced sod. It seldom produces many stolons or surface runners, thus less-

ening the amount of top-dressing and watering. From 60 to 100 lbs. of seed should be used per acre.

MIXED GERMAN BENT

As the name implies it is composed of a mixture of different varieties of bents. It is a general purpose grass for greens, lawns and fairways.

SEASIDE OR COOS COUNTY BENT GRASS

(*Agrostis maritima*)

A superlative bent for putting greens and lawns, ranked high by U. S. Golf Assoc. for putting surface, producing a luxuriant matted growth. It is one of the most vigorous stoloniferous creepers although this characteristic does not usually show up till the second year, after which it makes a fine turf of uniform color and texture. Sow about five pounds to 1,000 square feet.

"ACME" BEST CLOVER SEEDS

Prices are so changeable they cannot be given here. Will be glad to quote firm prices on request. Bags for Clover Seed, holding 2½ bus., extra, and must be remitted for on all orders.

JAPAN AND KOREAN CLOVERS (*Lespedeza*)

The acreage sown to these Clovers is rapidly increasing each year; they are becoming very valuable as forage crops, used extensively for hay; also very popular for grazing. *Lespedeza* is an annual, but once planted reseeds itself satisfactorily if given a short period of rest. Being leguminous plants, they are very profitable as soil builders, growing on almost any character of soil; thriving well on sour land.

Seed can be sown during the early spring, or as late as May 15th, broadcast at the rate of 25 pounds per acre; being customarily sown on old pastures where plowing is not necessary, producing good yields under ordinary conditions. Also, excellent to sow with other grasses, affording ample grazing through the hot summer months. Quantity of seed sown per acre should be reduced according to stand of grass.

The Korean Clover is larger, coarser and blooms earlier than the Japan Clover.

RED CLOVER - *Trifolium pratense*

Too well known to need extended description. Can be sown either in the spring or fall and requires 8 to 12 lbs. per acre alone or 5 to 6 lbs. per acre if in mixture with grasses.

MAMMOTH OR SAPLING CLOVER

Similar to Red Clover but of larger growth and blooms 3 weeks later, hence more valuable for sowing with Timothy. It also forms better aftermath than Red Clover. Requires same quantity of seed as Red Clover per acre. Current prices on request.

ALSIKE CLOVER - Also Called Swedish Clover

Similar in growth to Red Clover but not quite so vigorous. Blossoms flesh color. Blooms later and at the same time as Timothy. Valuable for hay and more satisfactory for pasturage as it lasts longer and will stand more grazing.

If sown alone requires 4 to 6 lbs. per acre or in mixture 2 to 3 lbs. per acre.

ACME INOCULATION FOR ALL LEGUME CROPS

The legume crops, such as alfalfa, the clovers, soy beans, vetches, peas, etc., are known as soil builders because certain soil bacteria make nodules on their roots in which nitrogen is gathered from the air and stored. If these special bacteria are not present, the crop robs the soil instead of building it up. The only way to make sure that there is a sufficient supply of nodule bacteria in the soil is to inoculate the seed before sowing with a culture of the right kind of bacteria. Inoculation produces the following results:

1. **Insures Better Stands.** The legume crops require plenty of nitrogen. Inoculation makes an ample supply available.
2. **Insures Bigger Crops.** Inoculation by increasing available plant food promotes the most vigorous growth and produces bigger crops.
3. **Increases Value of Crop for Feeding.** By feeding nitrogen to plants, their protein content and hence their feed value, is greatly increased.
4. **Adds Fertility to Soil.** Inoculation provides plenty of nitrogen for the crop and, when it is turned under, adds to the soil an average of 100 lbs. of nitrogen per acre.

ACME INOCULATION is a scientific pure culture of root nodule bacteria, prepared on special food jelly in bottles with patent stoppers which permit the bacteria to live and breathe and maintain their vigor. Each culture contains plenty of bacteria to inoculate the quantity of seed marked on the bottle. The cost per acre is very small.

Moreover, **Acme Inoculation** is easy to use, requiring no equipment or experience. Takes only a few minutes. Complete directions on every bottle. Results are sure. Buy your **Acme Inoculation** when you buy your seed. Always specify name of crop as well as size of culture wanted.

PRICES

For Alfalfa, Sweet Clover, Red Clover and other Clovers (specify which):

1-bu. size, 50c;
2½-bu. size, \$1.00.

For Soy Beans, Cow Peas, Field Peas and Beans and Vetches (specify which):

1-bu. size, 35c; 2-bu. size, 60c; 5-bu. size, \$1.00.

For Garden Peas, Sweet Peas, Garden Beans and Limas.

Garden size, 25c.

Always specify name of crop as well as size of culture wanted.



"ACME" BEST CLOVER SEEDS—Continued**SWEET CLOVER**

It is suitable for almost all classes of soil and especially desirable on loamy, sandy or alluvial soils. Formerly it was used mostly for waste lands, but many prominent stock raisers are using it extensively for both pasturage and hay, in many cases abandoning Alfalfa and substituting Sweet Clover.

Sweet Clover is of vigorous growth and withstands extremes of heat and cold as the tap roots penetrate the soil very deeply, and it does well on both barren hillsides and bottom lands. Matures early. Can be cut two or three times a season; has a delightful and sweet-scented odor, and the blossoms are particularly attractive to bees.

We offer the following classes:

WHITE SWEET CLOVER

A biennial growing 5 to 6 ft. high having white blossoms borne in large panicles and extremely sweet scented. Reseeds itself if undisturbed or not cut in bloom.

Hulled Seed. (Cleaned seed) requires 10 to 12 lbs. per acre. Bags extra. Current prices on request.

Unhulled (Seed with the hull on).

YELLOW SWEET CLOVER

A biennial not quite so tall growing as the White but more desirable for pasture as the life season is much longer, producing an abundant yield of forage.

GRUNDY COUNTY SWEET CLOVER

A white blossom biennial. The growth starts early in the spring and makes an abundance of early pasturage. It is unusually hardy and a good soil builder. The stem and leaves are finer and make a better hay than the Common Sweet Clover.

When grown for seed, the yields are from five to ten bushels to the acre. Unlike the common biennial, it grows to a height of three to five feet and may be harvested with the ordinary grain binder. The seed ripens uniformly earlier than the common.

Sow at rate of 12 pounds scarified seed per acre.

HUBAM SWEET CLOVER

An annual Sweet Clover with a growth of 3½ to 6 ft. Is particularly good for bees as it blooms the first year. Also excellent as a green manure crop. Most favorable results are obtained by sowing broadcast. Requires 12 to 15 lbs. per acre.

CRIMSON OR SCARLET CLOVER

(*Trifolium incarnatum*)

This Clover grows about two feet high, makes good hay and is excellent for feeding green, the yield being immense; and after cutting it at once commences to grow again, and continues until freezing weather, but being an annual, dies after maturing its seed. Should be sown in July and August, also early spring. (15 to 20 lbs. per acre.)

WHITE CLOVER - *Trifolium repens*

Well known and indigenous to most soils throughout this section. It is largely used for lawns and pastures, producing very quick growth and covering the soil with a bright, vivid green very thickly. Particularly suited to sandy soils and in some localities where grasses do not grow well.

Requires 3 to 4 lbs. per acre or in mixtures 1 to 2 lbs. **"ACME." J.C. McC. Best Grade.**

ALFALFA OR LUCERNE - *Medicago sativa*

Alfalfa is being more generally grown, as experience is teaching our farmers the proper methods to follow. Once established, it is such a profitable crop that every farmer can afford to take great pains to obtain a stand. It requires cutting at least twice the first season, even if not large enough to make hay. Cutting destroys any weeds that may come up in it and gives the Alfalfa a chance. Must be sown at the rate of 10 to 15 pounds per acre when sown broadcast. Different soils do not seem so difficult to overcome, especially where they can be properly drained, pulverized, sweetened and inoculated.

Alfalfa does not thrive on acid or sour land.

A liberal dressing of fine ground lime will be found a great benefit to the soil. May be sown from April 1st to June 15th for the early spring sowing, either drilled or sown broadcast. If broadcast, cover lightly with a light drag or with single stroke of a harrow.

Much seeding is now done later and many prefer sowing from July 15th to September 15th. When seeded late it gives the grower an opportunity to have his land clean and free from weeds, and if weather conditions are favorable a crop is almost assured.

Alfalfa naturally prefers a deep, sandy or gravelly subsoil. Roots from 3 to 15 feet deep and a good stand on properly selected land should yield from 3 to 5 cuttings a year. We can supply Kansas grown, Idaho grown and Grimm Alfalfa. Current prices on request.

SEED CORN**SEED CORN TREATMENT REDUCES DISEASE DAMAGE**

Seed disinfection with **Improved Semesan Jr.** will help greatly to prevent damage by diseases to the roots, stalks and ears of field and sweet corn. See page 81.

Our Field Corn is carefully selected, tested and graded with greatest care. Ask for current prices, stating variety in which you are interested.

White Varieties
OHIO WHITE DENT
Johnson County White Dent

Probably the best known varieties and most commonly planted in this section.

Produces a large ear, slightly tapering, 8 to 10 inches long. Deep, large kernel, slightly rough and dented. Matures in about 100 days.

HICKORY KING CORN

The ears are small, 2 to 3 on a stalk. It has the largest grains and the smallest cob of any white corn ever introduced. This is planted extensively for green table corn, as it produces 2 to 3 good ears to the stalk and is profitable.

SOUTHERN PROLIFIC

A White Ensilage variety, reported to produce more tons of silage to the acre than any ordinary field corn. Stalks grow 14 to 16 feet high, bearing 2 to 4 medium size ears. Matures in about 110 to 120 days.

RED COB ENSILAGE

A popular variety, fodder corn, either to feed green or put up for the silo; produces heavy foliage, growing to a fair height.

Yellow Varieties
WOODBURN YELLOW DENT
An Extra Early Variety

The demand for this variety is increasing each year. It is quite a favorite among the corn growers, on account of its early maturity (about 90 days).

It has exceptionally good yielding qualities. The cob is small and well filled from but to tip, grain very deep.

Produces an early crop and very desirable for late planting.

LEAMING

An ideal feeder's corn of light, golden color; ripening in about 110 days; ears slightly tapering and cylindrical. They grow 8 to 10 inches long, 7 to 8 inches in circumference. The ears are from 16 to 22 rows. The cob is red and of moderate size.

OHIO YELLOW DENT

A medium early yellow variety, producing well-filled ears of good length and filling out remarkably well, even under adverse conditions. Stalks of good height, producing one or two good ears, which average 10 to 11 inches long, 14 to 16 rows. Grains flinty, deep; slightly dented, rich color, and fine feeding quality. Ripens in about 110 days.

Acme Inoculation will insure a sturdy Alfalfa stand. Inoculate the seed this year. See page 65.

SEED OATS**SWEDISH TYPE WHITE AND FULGHUM**

Our Oats are carefully selected stock and well re-cleaned. Do not confuse them with ordinary **Feed Oats**.

WINTER TURF OATS

For fall and spring sowing. 4 to 5 feet high; straw is very palatable for stock. 1½ to 2 bu. per acre.

Write for current prices and varieties.

VETCH - Hairy or Sand - *Cicia villosa*

Winter annual, especially adapted to sandy soil and will do much to build up any poor soil. Withstands cold weather. Should be sown from late August to middle of September. Can be sown with Rye.

SPRING VETCH - *Vicia Sativa*

Used with oats for producing spring hay.

CANADA FIELD PEAS

Grown with oats will make a fodder or hay which doubles the production of milk.

Should be sown in March or early April, two bu. of peas and two bu. of oats to the acre. The peas should be sown first and plowed under about 4 inches deep; the oats then sowed and harrowed in. They will be ready for cutting about the end of June, when oats are in milk and the pods formed on peas. Write for prices.

SUNFLOWER, Mammoth Russian

The best variety for the farmer. Drill in seed at about 8 to 10 lbs. to acre. It is much relished by poultry and horses. Current prices on request.

BROOM CORN, Improved Evergreen

Produces long, straight straw of greenish appearance after being cut. Commands the highest price.

Sow 4 to 5 pounds in drills 3 ft. apart per acre, then thin out the stalks to about 70 to the rod. Cultivate same as corn. Cut when the seed is in the milk.

Current prices on request.

"ACME" BEST MILLET**TRUE TENNESSEE CULTIVATED GERMAN**

(Round Seed.) This Millet withstands drought better than all other varieties. It is used as a summer hay crop and particularly adapted to rich or bottom soils. It should be sown thickly and cut when the heads are in bloom; never allowing it to get old or seed to form as this causes a great drain on the soil besides materially injuring the quality of hay. Very useful for cleaning rich, foul lands of weeds as its quick, abundant, luxuriant growth smothers most weeds. Sow one bushel per acre in May, June or July. Two crops can be seeded on the same land in one season, if desired.

WHITE WONDER MILLET

Produces a very large head similar to the Tennessee Millet. Under certain growing conditions it is quite difficult to distinguish it from the cultivated millet. The heads will run from six to eight inches. A very desirable feature is its earliness; the foliage is also very heavy and the leaves broad, resembling Golden Millet. It produces an immense amount of excellent fodder which cures very readily.

HUNGARIAN

Specially adapted to rich or alluvial soil. It makes a finer quality of hay than Millet on very rich soil as it does not grow so coarse. Cut at the right time, which is in bloom, and cured properly, it makes a nutritious hay; is especially popular with dairymen.

Sow from ¾ to 1 bushel per acre in May, June or July. Current prices on request.

BUCKWHEAT

A splendid crop for poor land. Largely used for bees.

Culture—Sow in June, July or August at rate of ¾ bu. to 1 bu. per acre broadcast, covering with a smoothing harrow. It does not mature grain until the cool nights—hence, too early sowing is not desirable.

JAPANESE. This produces the largest yield of finest and largest kernel buckwheat. Superior to all other sorts. Current prices on request.

SILVER HULL. Much improved over the common Buckwheat. Grains, however, smaller than Japanese but yielding abundantly. Current prices on request.

KAFFIR CORN

Foliage and stalks do not contain saccharine matter, hence are not so valuable for feeding, but the enormous yield of grain makes it very profitable. The grain is very largely used for poultry and stock feeding, containing a high percentage of starch. Current prices on request.

SOY BEANS

Soy Beans do well on both light and heavy soils. They are valuable as a forage crop and improve the soil and increase following crop production. They are a valuable pasture crop for hogs as well as other stock, and can be sown by themselves for this purpose; or in the corn rows and the hogs turned in to feed on them after the corn is harvested.

The value of Soy Beans as a grain crop makes it particularly adapted to systems of rotations. Like other legumes, Soy Beans are able to utilize the nitrogen of the air, adding it to the soil. Soy Beans should therefore be inoculated. Actual experiments have shown that legumes not inoculated rob the soil; inoculated they feed the soil. Sow 1½ to 2 bushels per acre broadcast, in drills 45 pounds, after danger of frost is past. Use "ACME" Inoculation for BEST results.

We carry the following varieties in stock. Write for full description and current prices.

Best for Hay Crop

Wilson
Laredo

Black Ebony
Virginia

Other Varieties

Manchu
Hollybrook
Black Eyebrow
Dunfield

Midwest
Illini
Itosan
Mammoth Yellow

Use Acme Inoculation**COW PEAS****The Great Soil Improving Crop**

Grows best on light or sandy soils. Have a high feeding value. Belonging to the bean family, they are nitrogen gathering plants and if inoculated will improve the productiveness of the soil.

We usually carry the following varieties:

Whippoorwill New Eras Brabhams
Early Blacks Mixed Varieties

Sow 1½ bushels per acre after danger of frost.

Write for prices

USE ACME INOCULATION**RYE****NORTHERN ROSEN - HOME GROWN**

Our Rye is carefully selected stock and well re-cleaned. Do not confuse it with ordinary milling Rye.

BARLEY

Barley needs a rich land and lighter than that adapted to wheat. It should be cut before fully ripe, if for hay, as it is then of better quality, and less liable to shell. Sow 1½ to 2 bushels if drilled; 2 to 2½ bushels broadcast. (48 lbs. per bushel.)

Spring Barley, Beardless and Bearded. Current prices on request.

VELVET OR BARBLESS BARLEY

A Spring Bearded variety with smooth beards, there being no barbs. It is reported to us that the straw is suitable for feed and the crop handles as nicely as oats. Sow two bushels to the acre.

We also carry in season Fall or Winter Barley of the bearded variety.

DWARF ESSEX RAPE

Rape makes excellent pasture for both sheep and hogs and is a fine conditioner for all live stock, except milk cows. Best results are obtained by planting in two separate fields; pasturing alternately 10 days each. Plant any time, early spring to midsummer.

Sow 3 pounds per acre in drills; 6 pounds broadcast.

SUDAN GRASS

Sudan Grass produces an immense yield of nutritious hay. It can be cut twice in a season if planted early in the season but after frost danger. Grows 3 to 5 feet high. It is adapted to growing in all kinds of soil but produces the largest yield in warm temperate latitude. After first cutting it stools enormously and then furnishes exceptionally fine pasture for all stock, except milk cows. It is killed by the first frost.

8 to 12 pounds in drills 2½ to 3 ft. apart or broadcast 20 to 30 pounds per acre.

SORGHUM OR CANE**EARLY AMBER - EARLY ORANGE**

These two varieties are favorites north of the Ohio river, growing 10 to 12 ft. high. It makes an excellent fodder and it is also fine for silage.

"Crops that grow seed in pods should give two to five times the yield if inoculated with 'Acme' Inoculation." See page 65.

SUMMER FLOWERING BULBS AND ROOTS

These include many of our most attractive plants both for foliage and flowers. As a rule they should be planted out-of-doors after the weather has become settled and warm. After the first frost and the leaves

have turned droopy or yellow, take up and put in a dry cellar or some other place where they will not freeze, storing in paper bags or soil preferably, and then replanting the following year.

TUBEROUS - ROOTED BEGONIAS

They are now used extensively for outdoor planting. Give them a partially shaded position in a light soil and well-drained location, and they will give more bloom than any other plant which will grow in such a place. A soil that will grow it to perfection is turfy matter scraped from the bottom of old sod—one part, and one part sand. Mix these well together, and you have a compost that is friable, porous and well adapted to any plants having fine, fibrous roots. It is more satisfactory to apply plant-food when needed, and in such quantities as seem to be required, than to make the soil very rich from the start. Water very cautiously until active growth begins, then increase the amount. But at no time during its existence will the plant require more than enough to make—and keep—the soil moist all through. Good

drainage should be provided to guard against over-watering.

DOUBLE FLOWERING VARIETIES

DOUBLE. Crimson, rose, scarlet, white and yellow, in separate colors. Each, 25c; per doz., \$2.25; per 100, \$14.00.

DOULE MIXED. Each, 20c; per doz., \$2.00; per 100, \$13.00.

SINGLE FLOWERING VARIETIES

SINGLE. Crimson, rose, scarlet, white and yellow, in separate colors. Each, 20c; per doz., \$2.00; per 100, \$13.00.

SINGLE MIXED. Each, 20c; per doz., \$1.75; per 100, \$12.00.

BRILLIANT - FLOWERED CANNAS

DORMANT ROOTS

The wonderful improvement to which this popular bedding plant has been developed makes it today one of the best of all summer flowering plants both for flowers and foliage. Its ornamental leaves, varying from light pea green to darkest brilliant maroons and bronzes, can be used most effectively both in borders or beds. The flower spikes have been developed to enormous size and individual flowers sometimes measure 2 inches across. They are of the most brilliant colors, including all shades from creamy white through pure lemon-yellow, orange, salmon-pink, scarlet to deep red velvety maroons. Many of the flowers are tinged with gold, some spotted and others striped until there is a gorgeous display which continues to bloom from early summer until cut by frost.

For best results beds should be deeply spaded and a liberal amount of well rotted manure dug in. A mass of the different colors can be planted together or single plants are effective—the arrangement being largely dictated by one's own taste.

Prices of named varieties listed below: per dozen, 75c; by mail, 90c per dozen.

GREEN FOLIAGE

APRICOT. The color is a buff-yellow base overspread with salmon-pink, making a mass effect of rich apricot. 4 ft.

CANARY BIRD. Flower a pure canary-yellow, produced on strong erect stalks well above the large, rich green foliage. The color and habits of foliage identical with The President. 4 feet.

EUREKA. The genuine, practical **White Canna** is found at last. With the advent of Eureka, we are granted good, full trusses; broad petals; uniform, free and continuous bloom, and a clean, waxy, lily-white color. Plant growth sturdy, with nice foliage. 4 ft.

HUNGARIA. Large flowers, borne in trusses of immense size. Color a pure La France pink with satiny sheen. The most popular pink; green foliage. 3½ feet.

QUEEN CHARLOTTE. The center of the petal is a brilliant crimson-scarlet, shaded with crimson and bordered with a wide belt of gold. 3 feet high.

THE PRESIDENT. This variety is superior to any other scarlet in quality and also the size of the flower. The foliage is entirely free from disease. 4 feet.

YELLOW HUMBERT. Has the same habit of growth as the King Humbert. Has green foliage and produces yellow flowers, dotted with red. 4 feet.

BRONZE LEAVED

THE AMBASSADOR. A distinguished looking Canna. Flowers vivid cherry-red, has luxurious tropical foliage, prettily bronzed, and makes a splendid color contrast with its brilliant blossoms. Ambassador has a habit of holding its flowers high above the foliage, a feature which makes this variety especially attractive. 3½ to 4 feet.

KING HUMBERT. In this grand Canna we have a combination of the largest type of flowers with the finest of bronze foliage. Its flowers measure 6 inches in diameter. Produced in gigantic trusses, a brilliant orange-scarlet with bright red markings; foliage broad and massive, of a rich coppery-bronze. 4 feet.

SHENANDOAH. 4 feet. Flowers salmon-pink borne in large clusters, foliage rich ruby-red.



King Humbert Canna.

OUR 1934 MIXED CANNA COLLECTION

Per doz. 60c.

By mail 75c.

DAHLIAS

READY ABOUT APRIL 1ST

One of the most satisfactory of the summer flowering roots, producing an abundance of brilliantly colored flowers from July to frost. Many of them in two or more colors with edged petals; some double and quilled petals, others broad, flat petals; some twisted and curled, and comprise many fantastic shapes.

CULTURE. Plant from May to July. Tubers should be planted about 6 inches deep, laid flat, eyes or sprout up. Allow at least 3 feet between plants, each way. Do not allow over three stalks to grow. Stake the plants. Keeping the suckers pulled off will produce the finest blooms. After frost dig and store in a dry place where they will not freeze. Covering the tubers with peat moss is very satisfactory.

The size of the tuber does not in any way designate the size or quality of the flower. Some varieties of dahlias always produce very small bulbs, while other varieties make larger ones.

Our stock is **CHOICE FIELD GROWN** Roots, strong divisions.

J. CHAS. McCULLOUGH DAHLIA

HYBRID CACTUS

The Dahlia we have been looking for. A winner of first prize ribbons at the Dahlia Show held at Fleischmann Gardens in Cincinnati, Oct. 4th and 5th, 1930, also Oct. 3rd and 4th, 1931, by the National Gardeners' Association, and various other flower shows. J. Charles McCullough is a gigantic flower that is easily one of the largest, handsomest and most outstanding of late introductions. The color is entirely distinct. It is a perfect blending of pink and rose, accented by a delicate white line running the length of each perfect petal, which curls and twists very much as a chrysanthemum petal and forms one of the most popular shaded and indescribably beautiful of all dahlias.

J. CHAS. McCULLOUGH Dahlia blooms early and profusely. It has long stems, a stiff neck and finely cut foliage that forms a background for the flower even when disbudded. Even when neglected this Dahlia blooms beautifully and is satisfactory; but when cared for by the Dahlia enthusiast, its loveliness can be surpassed by none. The flowers are full to the center and keep indefinitely when cut. The plant is a strong, sturdy grower and will be a continual delight to all of our customers who are fortunate enough to own it. **Each, \$1.25.**

AVALON (Decorative). Pure clear yellow, the large flowers are very distinct and pleasing, always with a full center. One of the best of its color. **Each 50c.**

BUCKEYE FLAME (Decorative). A bright scarlet-orange with blood-red center; blossom 8 to 10 inches in diameter. A strong vigorous grower. **Each \$1.00.**

DR. J. H. CARMEN (Decorative). A deep rose, producing many fine very large flowers from early to late. **Each \$1.00.**

ELITE GLORY (Decorative). A sensational, massive, mammoth, rich red, exhibition variety, with heavy, stout stems of sturdy vigorous habit. **Each 50c.**

ELLINOR VANDERVEER (Decorative). An incomparable Dahlia of exquisite beauty and of great size and depth, having every desirable quality. Color a rich, glowing, satiny pink. One of the earliest to come into flower. **Each 50c.**

FT. MONMOUTH (Decorative). A rich crimson giant of the Dahlia world and a general favorite. **Each \$1.00.**

FORDHOOK MARVEL (Decorative). Very large peach-red on long erect stems. The plants are extremely vigorous. **Each \$1.00.**

GOLD MEDAL (Show). A splendid show Dahlia of yellow base tipped with a most pleasing shade of coppery bronze. The most desirable color, long sturdy stems. **Each 50c.**

GLORY OF MONMOUTH (Decorative). A new color combination in Dahlias, pink shading to strawberry pink at center of petals, the base of these being a light orange. The flowers are from 6 to 8 inches in diameter, 4 inches deep. **Each 50c.**



Jersey's Beauty Dahlia.

HELEN IVINS (Decorative). A beautiful orchid-lavender of immense size and fine growth; stems are extra long and flowers are produced in abundance. **Each 75c.**

JANE COWL (Decorative). Deep massive blooms of bronzy buff and old gold, blending darker toward the perfect center. The petals are broad with just enough twist to add the refinement often lacking in large Dahlias. A wonderful exhibition flower. **Each 50c.**

JERSEY'S BEAUTY (Decorative). Still the leader of the pinks, standing in a class by itself. Very vigorous and clean grower on perfect stems. No garden should be without it. **Each 50c.**

JERSEY'S BEACON (Decorative). Chinese scarlet with paler reverse, giving a two-tone effect. Huge flowers on strong stems. **Each 50c.**

JERSEY'S SOVEREIGN (Decorative). An outstanding color of plain orange-scarlet. Very attractive and most reliable. **Each 50c.**

JEAN KERR (Decorative). An early medium white of very free flowering habit. **Each 50c.**

KATHLEEN NORRIS (Decorative). A great pink. Color a true rose-pink, later deepening to mallow-pink, but paler in the young central petals. A bloom of gigantic proportions, petals broad and overlapping with twisted ends; full tight center; long, stiff, clean stems; a great bloomer and an excellent keeper. **Each 75c.**

OUR 1934 MIXED DAHLIA COLLECTION

Composed only of selected varieties. Nothing under one dozen sold.

PER DOZEN \$1.10

BY MAIL \$1.25

DAHLIAS—Continued.

- MARGARET MASSON** (Decorative). One of the finest exhibition varieties with very large full flowers of splendid form. Color a most pleasing shade of silvery lavender-pink. Has been awarded many prizes and attracted much attention at the shows. **Each 50c.**
- MONMOUTH CHAMPION.** (Decorative). One of the most beautiful and outstanding Dahlias of the day. A brilliant orange-flame that fairly glistens. Immense in size, good bloomer. **Each \$1.50.**
- MARGARET WOODROW WILSON** (Decorative). An exhibition variety of immense size and wondrous beauty. Color an opalescent pink, base of petals creamy white, with phlox-pink reverse. **Each 50c.**
- QUEEN OF THE GARDEN BEAUTIFUL** (Decorative). A fine large clear yellow with good stem. One of the best. **Each 50c.**
- ROSE FALLON** (Decorative). An exceptional Dahlia of deep old gold of perfect form and perfect stems. **Each 50c.**
- SAGAMORE** (Decorative). Light saffron-yellow with glowing red-tinted golden suffusion. A good free bloomer with medium sized flowers which are particularly prized for cutting. **Each 50c.**
- TREASURE ISLAND** (Decorative). One of the brightest autumn shades yet introduced; a bright apricot with gold and rose suffusion and shading. Habit, stems and flowers all that can be desired. Has many awards to its credit. **Each \$1.00.**
- WILLIAM H. HOGAN** (Decorative). A very good stemmed purplish red, tipped white, making it very attractive. As a cut flower it is a splendid keeper **Each \$1.00.**

The Book of "Dahlias" by F. F. Rockwell

Learn to know the different types of dahlias and their uses in your garden, how to plant and grow them, how to propagate and hybridize. Brief and practical. See page 95.

CALADIUMS - Elephant Ear

A vigorous growing plant which has tremendously large pendulous leaves borne on long, stiff stems. In rich soil, and with an abundance of moisture, assumes very large growth and is most effective either singly on lawns or planted in centers of beds or as background for other blooming plants.

	Each	Doz.
7 to 9 in. circumference	\$0.07	\$0.75
9 to 11 in. circumference .....	.15	1.50
11 to 13 in. circumference20	2.00

MAMMOTH SIZE

13 to 15 in. circumference30	3.00
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The Book of Bulbs, by F. F. Rockwell will help you grow bulbs successfully for spring, summer fall and winter flowering, inside and outside your home. Recommended as the most complete and newest guide to bulb growing. See page 95.

TUBEROSES

Well-known summer flower, having a very sweet scent. Bulbs may be planted outside from April to June.

EXCELSIOR DWARF PEARL. The best of all double Tuberoses, producing very large finely formed flowers. First size bulbs, each, 7c; per doz., 60c; per 100, \$4.00.

MADEIRA VINES - Mexican Potato

A rapid growing vine with bright, smooth leaves which produce intense shade and valuable for covering fences, outbuildings, or screening porches. Plant the roots 2 inches deep. Vines should be trailed on strings or poles. Strong roots. **Each, 5c; per doz., 40c; per 100, \$3.00.**

Waterlilies and Aquatic Plants

You have never known all the delights of a garden, if you have never known the real pleasure that comes from a pool of Waterlilies. Hardy Waterlilies thrive in pools and small ponds, no trouble to care for them. A box one foot square and one foot deep is as small as you can have for the plants to do well. The soil for Waterlilies is preferably a mixture of two-thirds rich garden soil and one-third well-rotted cattle manure. Most Waterlilies thrive at any depth from 4 to 30 inches.

PINK VARIETIES

- TUBEROSA ROSEA.** A delightful shade of pink. Strong, vigorous grower. **Each 50c**
- EUGENIA DE LAND.** Deep rose-pink; narrow petals **Each.. \$1.25**
- PINK OPAL.** The flowers are very deep pink. One of the best pink varieties. **Each\$1.00**

YELLOW VARIETIES

- MARLIACEA CHROMATELLA.** Color of the bloom is bright yellow; leaves green mottled brown. **Each \$1.00**
- CHRYSANTHA.** The color is orange-yellow, deepening on the third day to rich reddish brown. **Each \$1.00**
- INDIANA.** A very fine copper colored Lily. Should be in every water garden. **Each \$1.00**

WHITE VARIETIES

- MARLIACEA ALBIDA.** This is one of the steadiest of bloomers. White with yellow stamens. **Each \$1.00**
- GLADSTONE.** The best of all white Lillies. **Each \$1.50**



Gloriosa Lillies.

RED VARIETIES

- CARMINE LAYDEKER.** Pleasing rose colored flowers. Rapid grower. **Each \$1.00**
- GLORIOSA.** The king of the red Waterlilies. It just blooms and blooms. **Each \$2.00**

SUBMERGER PLANTS

These plants are to be rooted in soil in shallow water or in the lily boxes.

Collection of 7 plants \$1.00

SHALLOW WATER PLANTS

Your pool will be more attractive when planted with this collection of plants.

Collection of 10 plants\$1.00

TROPICAL PLANTS

These plants are ready about June first. No pool is complete without these plants.

Collection of 7 plants \$1.00

The book "Garden Pools (Large and Small)," by Ramsey & Lawrence. Nothing can add so much to your garden as a pool, even if it is only a transformed wash tub in the tiniest garden space. How to have one is fully explained in this new book. See page 95.



Glorious Gladioli.

Hardy Lilies

Lilies are stately and most beautiful bulbous plants—producing large flowers of exquisite outline and varied coloring. They are hardy even in cold locations with protection, usually surviving for many years. Ideal locations are in the shrubbery or herbaceous border where the roots are sheltered from the hot sun. Groups of 6 or more lilies of a kind, here and there, in such situations are most effective. Large isolated clumps or beds of the varieties *Auratum* or *Rubrum* are very beautiful. They should be planted 6 to 8 inches below the surface in light soils, or 4 to 5 inches below in heavy soils; in the latter case the bulbs should be surrounded by sand to facilitate drainage.

REGALE LILY. The most popular lily ever introduced. It is absolutely hardy and is excellent for forcing. It has been predicted that this will become the Easter Lily of the future, and being so hardy, may be grown at home. The flowers are white, slightly suffused with pink on the outer edges, with a beautiful shade of canary-yellow at the center, and extending part way up the trumpet. It is delightfully perfumed, reminding one of Jasmine, and lacking the heavy, oppressive odor of most lilies. Blooms out-of-doors early in July. Thrives in any good soil not too wet. **Each, 25c; per doz., \$2.50.**

AURATUM (Gold Banded Japan Lily). A magnificent sort producing large broad creamy white flowers spotted with maroon and having a broad band of gold extending the length of each petal. Large size bulbs. **Each, 25c; per doz., \$2.50.**

SPECIOSUM RUBRUM. A magnificent sort. Color bluish-white with dark maroon spots. Very effective and handsome. **Each, 35c; per doz., \$3.50.**

As a safeguard against fungous disease, such as rot, etc., dust bulbs thoroughly with Semesan before planting. See page 81.

Glorious Gladioli

Gladioli are among the most decorative plants in the garden and as cut flowers lend themselves readily to any arrangement. If the spikes are cut when the lowest flower is in bloom, the others will open in succession and remain fresh a week or ten days.

Gladioli will thrive in almost any soil except a stiff clay. Plant the bulbs six to nine inches apart, the large ones four inches and the small ones two inches deep. Make an early planting of the smallest bulbs first as soon as the ground is sufficiently dry and warm. Continue to plant at intervals of two weeks during the spring and early summer; in this way a succession of bloom may be had from mid-summer until frost. A free use of water during the season of active growth, particularly as the buds begin to show color, will be beneficial in producing fine blossoms. In the autumn before freezing, they should be dug and the tops allowed to dry down, after which the dry tops, earth and old bulbs can be removed. Store in a cool place, secure from frost, until spring.

Queen City Gladiolus Collection

CATHERINE COLEMAN. Clear salmon-rose with purplish pencilings on lower petals. Tall, straight plant with several large well placed blooms open at one time. **Each, 10c; per doz., \$1.10; per 100, \$7.50.**

CHARLES DICKENS. Bright purple with velvety blotch. Tall, strong, straight spike with many fine large blooms, splendidly placed and spaced. **Each, 8c; per doz., 85c; per 100, \$6.00.**

DR. F. E. BENNETT. Fiery scarlet with white lines in the throat. One of the best. **Each, 7c; per doz., 60c; per 100, \$4.00.**

GOLDEN MEASURE. Pure golden yellow; very large flowers; robust grower and considered the best yellow. Truly a super "glad." **Each, 7c; per doz., 65c; per 100, \$4.50.**

LA PALOMA. A beautiful shade of orange, many flowers open, well placed on a tall, straight spike. **Each, 10c; per doz., \$1.10; per 100, \$7.50.**

COLLECTION A. 3 of each (15 bulbs) of above varieties. **postpaid, \$1.00.**

COLLECTION B. 6 each (30 bulbs) of above varieties, **postpaid, \$1.75.**

NAMED VARIETIES

These comprise some of the choicest sorts.

If by mail, add 7c per dozen for postage.

AMERICA. One of the finest varieties for cutting or bedding; color a beautiful soft flesh-pink; orchid-like in its coloring and texture; growth and habit perfect. **Each, 5c; per doz., 30c; per 100, \$2.00.**

ANNA EBERIUS. Beautiful dark velvety purple, throat a deeper shade, slightly ruffled. The best in its color and a strong grower. **Each, 6c; per doz., 45c; per 100, \$3.00.**

CRIMSON GLOW. A perfect, very large deep scarlet-crimson; flowers on tall, strong spike. **Each, 5c; per doz., 30c; per 100, \$2.00.**

HALLEY. A delicate salmon-pink with rosy tinge. The lower petals have a creamy blotch with a stripe of bright red through the center. The best of all salmon-pinks. **Each, 5c; per doz., 30c; per 100, \$2.00.**

MRS. FRANCES KING. Brilliant vermilion-scarlet borne on long spikes. Flowers enormous, sometimes $4\frac{1}{2}$ inches across. Most excellent. **Each, 5c; per doz., 30c; per 100, \$2.00.**

MRS. FRANK PENDLETON. Flushed salmon-pink, with rich maroon blotch on the three lower petals. The most popular flower in florists' shops. **Each 5c; per doz., 30c; per 100, \$2.00.**

MRS. LEON DOUGLAS. Large begonia-rose, spikes often 5 feet tall. The giant of Glad-dom. **Each, 6c; per doz., 35c; per 100, \$2.50.**

PEACE. Very large, white, with pale violet feathering on lower petals; flowers correctly placed on a tall, graceful spike. **Each, 5c; per doz., 30c; per 100, \$2.00.**

PERSIA. Deep mahogany-red, almost black. **Each 6c; per doz., 50c; per 100, \$3.50.**

SCHWABEN. Clear canary yellow, shading to soft sulphur. Largest flower stalk and leaves of all. **Each, 6c; per doz., 35c; per 100, \$2.50.**

J. C. McC. SUPER MIXTURE. Largest size bulbs. Brilliant colors and shades. **Per doz., 25c; per 100, \$1.50.**

The book, "Gladiolus," by F. F. Rockwell, is recommended as the best brief guide on gladiolus growing. It tells how to plant, fertilize and cultivate; how to grow from seed or bulblets; how to harvest and cure; how to handle for cut flowers, and every other detail needed for success with this popular flower. See page 95.

ROSES FOR YOUR GARDEN



Hybrid Tea, Olympiad.

THE NEW DAWN Climbing Rose

Plant Patent No. 1

An everblooming Dr. W. Van Fleet. Identical in every way with its parent in color, size and formation of its pale pink flowers; but it blooms continuously throughout the summer and fall months. This Rose is patented and we sell only authorized stock. Strong 2-year-old plants. \$1.50 each.

Hybrid Perpetual Roses

Frau Karl Druschki. White.
General Jacqueminot. Red.
Paul Neyron. Pink.
Price, each, 35c; 3 for \$1.00.

Everblooming Hybrid Tea Roses

BRIARCLIFF. Deep rose-pink.
DAME EDITH HELEN. Bright pink, large and fragrant.
DUCHESS OF WELLINGTON. Saffron-yellow.
EDITH NELLIE PERKINS. Orange outside, salmon-pink inside.
E. G. HILL. Massive blooms of deep maroon.
ETOILE DE HOLLANDE. Dark red.
JOANNA HILL. Indian-yellow center surrounded by gold-buff petals.
LOS ANGELES. Pink-coral-gold.
MME. BUTTERFLY. Pink-apricot-gold.

How to Grow Roses

By Pyle, McFarland and Stevens. Here you will find full and practical information on every question on the growing of garden roses. Written from the lifetime experience of three of our greatest growers. 45 varieties are illustrated in full color. The best book on roses ever published. 138 illustrations, 211 pages. \$2.00.

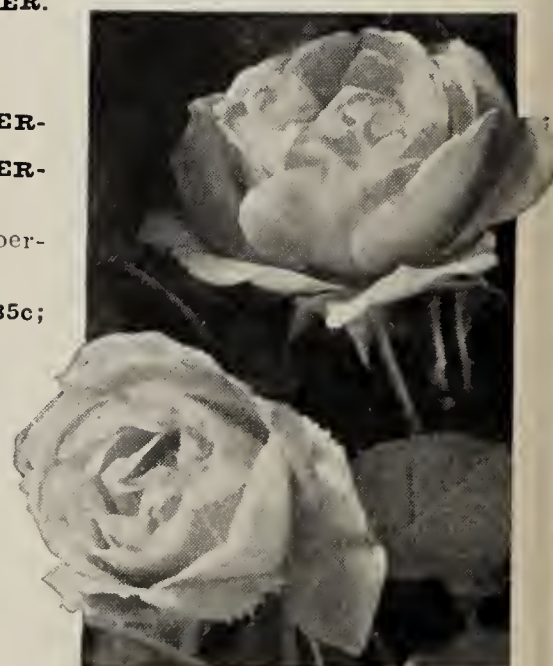


Hybrid Tea, Syracuse.

MME. JULES BOUCHE. White.
MRS. E. P. THOM. Clear yellow.
PRESIDENT HERBERT HOOVER. Pink-scarlet-yellow.
RADIANCE. Silvery pink.
RED RADIANCE. Cerise-red.
SENSATION. Crimson-scarlet.
SOUVENIR DE CLAUDIUS PERNET. Sunflower-yellow.
SOUVENIR DE GEORGES PERNET. Terra-cotta-pink.
TALISMAN. Red and gold.
WILHELM KORDES. Red-copper-gold.
WILLOWMERE. Shrimp-pink.
PRICE. Any of the above, each, 35c; three for \$1.00.

Climbing Roses

AMERICAN PILLAR. Brilliant pink with white eye and cluster of yellow stamens.
CLIMBING AMERICAN BEAUTY. Brilliant carmine.
DR. HUEY. Dark crimson.
DR. W. VAN FLEET. Pale pink.
MARY WALLACE. Salmon-pink.
PRIMROSE. Hardy yellow.
SILVER MOON. Creamy white.
PRICE. Any of the above, each, 35c; three for \$1.00.



Climbing Rose, Mary Wallace.

The Roses listed below are strong two-year old field grown budded plants. These have the advantage of being more vigorous and will bloom earlier than a Rose on its own roots.

CULTURE. Roses prefer rich clay loam but will grow in any soil if well drained, and fertilized with either manure or Bone Meal. Hybrid Tea Roses can be set 18 to 24 inches apart, Hybrid Perpetuals 2½ to 3 feet apart and Climbers 4 to 8 feet apart. In late November, draw the soil up against the plant in the same manner as you would hill up potatoes, and in December when the ground is thoroughly frozen, cover with straw or Peat Moss.

New Everblooming Roses

ESSENCE. The long-sought double Etoile de Hollande. Blooms deep crimson, full of "Essence" of Rose. Vigorous grower. Each, \$1.00.

E. J. LUDDING. A brilliant pink, never out of bloom. Very robust grower and extremely hardy. Each, 75c.

GOLDEN DAWN. The ideal yellow garden rose. The ovoid lemon bud is heavily splashed with crimson before opening and develops into a well-formed, sweetly-scented, large, double sunflower-yellow. Vigorous and free-flowering. Each, 60c.

AUTUMN. A burnt orange streaked and marked, with red bud. Double, fragrant and attractive flower. Foliage glossy and very dark green. Each, 75c.

OLYMPIAD. The color of Olympiad is unique, a lustrous, flashy, dark Oriental scarlet, its depth of color is brought out by the golden base and intensified by a rich velvety sheen.

The bud is long and pointed and the flower is magnificent in every stage of development. Each, 75c.

ROSLYN. Large fairly double, golden yellow, scented bloom on long, rigid stem. Each 75c.

SYRACUSE. Large, very double, crimson-scarlet flowers on long stems. Plant upright and vigorous. The abundant, healthy, dark green foliage is leathery and disease-resistant. Very hardy. Each, 75c.

BLAZE

Plant Patent No. 10

This variety is the everblooming Paul's Scarlet Climber that has created such a sensation. Its brilliant scarlet, slightly-fragrant flowers are borne all season. A very vigorous climber that makes a beautiful show all summer and fall. \$2.00 each.

Hardy Perennial and Rock Plants



Alyssum Saxatile Compactum.

® **POLYANTHUS veris** (Bunch Primrose). Shades of lilac, purple and violet, as well as buff, orange, salmon and rich reds of vigorous growth.

SEDUM Sieboldi. Round glaucous foliage. Bright pink flowers in September and October.



Cerastium.

SHASTA DAISY. Large, snowy-white flowers, in bloom continuously throughout the summer and fall.

TRITOMA Pfitzeri. (Red Hot Poker Flame Flower or Torch Lily). In bloom from August to November, a rich orange-scarlet, producing a grand effect, either planted singly in the border or in masses.



Sedum Sieboldi.

Plant orders will be forwarded by express, purchaser paying charges. Small orders may be forwarded by parcel post, but if wanted sent this way, please add 10 per cent of the value of the plants to cover postage and packing. All our perennials are strong field-grown plants and can be shipped during late March, April and early May and again in September and October.

All varieties marked ® are especially suitable for the Rock or Wall Garden.

® **ALYSSUM saxatile compactum** (Basket of Gold). Showy, bright yellow flowers, hardy perennials; excellent for rock work; 1 foot.

AQUILEGIA (Columbine). This is one of the best perennials for borders or edges of shrubbery. Do best in partial shade. **Mrs. Scott Elliott's Long-Spurred Hybrids.**

® **ARABIS alpina** (Rock Cress). Low growing for the rockery, small white, terminal racemes; 6 inches. April, May.

CANTERBURY BELLS. Numerous branches crowded with deep bells. Height, 2 to 3 feet. Colors, blue, pink and white.

ASTER (Michaelmas Daisy). Unrivalled for their bright colors during the autumn months. Fine for cutting and decorative effect. All colors.

® **CERASTIUM** (Snow-in-Summer). Silver foliage, white flowers. Fine for rocks. 6 inches.

® **CHEIRANTHUS Allioni** (Siberian Wallflower). A beautiful rock plant, dazzling orange flowers, 12 inches.

CHRYSANthemum. Valuable as a late cut flower, flowering from September until the middle of November. All colors.

COREOPSIS lanceolata. Bright golden yellow, blooming in profusion all summer.

DELPHINIUM (Larkspur). These are deservedly one of the most popular subjects in the hardy border, bold, attractive and highly prepossessing plants of easiest culture; perfectly hardy. They will establish themselves in almost any garden soil, but respond quickly to liberal treatment.

DELPHINIUM, Belladonna. The freest and most continuous blooming of all. Clear turquoise-blue.

DELPHINIUM, Bellamosa. Dark blue, white center, spikes three to four feet tall, vigorous; free blooming.

DELPHINIUM HYBRIDS. A beautiful collection of wonderfully developed plants of brilliant and showy flowers. Mixed colors.

DIANTHUS barbatus (Sweet William). These old-fashioned favorites are prized border plants. There is a great variety of rich colors, and the flowers are very fragrant.

® **DIANTHUS deltoides** (Maiden Pink). A beautiful little prostrate plant with narrow leaves and bearing a profusion of small crimson flowers during June and July.

® **DIANTHUS plumarius** (Hardy Garden or Pheasant Eye Pinks). These "Clove Pinks," so much used for edgings of old-fashioned gardens, bloom most profusely during May and June. They grow about a foot high and bear double flowers resembling small carnations. White, pink and red.

GAILLARDIA grandiflora. One of the showiest hardy plants, growing about 2 feet high and succeeding well in any soil in a sunny position. The center is dark red-brown, while the petals are marked with rings of brilliant crimson, orange and vermillion.

® **HEUCHERA brizoides** (Coralbells). Flowers bright crimson on 12 to 18-inch stems, June to September. Excellent for the rock garden.

HOLLYHOCKS. Growing 5 to 6 feet tall, these plants produce a pleasing effect planted either in rows on the lawn or among shrubbery. They require a deep rich soil and a sunny situation and will repay a little extra attention given them. Double flowering in colors.

IBERIS (Hardy Candytuft). A low evergreen, shrubby plant. Very valuable for dry, sunny places. Effective in clumps, drooping over rocks or edging the border. Hardy perennial.

® **sempervirens**. A profuse, white blooming, hardy perennial, coming in flower early in spring. 1 foot.

PHLOX subulata. An early spring-flowering type with moss-like evergreen foliage, which during the flowering season, in April and May, is hidden under masses of bloom. An excellent plant for the rockery.

® **alba**. Pure white.

® **rosea**. Rose-pink.

® **lilacina**. Pale blue.

PHLOX decussata. This is one of the most useful flowers for summer decoration, the colors varying from pure white to deep crimson.

Any of the above plants 15c each; 7 for \$1.00.

WE DO NOT GUARANTEE TO REPLACE PLANTS, SHRUBS, OR TREES, AT PRICES QUOTED.

HARDY SHRUBS

AT LOWEST POSSIBLE PRICES, ALL PREPAID

These shrubs, all shedding their foliage in the winter, are quite hardy, and will thrive in practically all sections. They make a rapid and luxuriant growth. Many varieties are used in foundation plantings, and others are desirable for flowers and berries.

Althea - Rose of Sharon

Bright green leaves and great abundance of variously colored flowers make it very effective when planted as a hedge. Blue-purple to violet-red, flesh color and white. There are also double forms. 2-3 feet. **Each, 35c; 3 for \$1.00.**

Butterfly Bush - Buddleia

SUMMER LILAC (*B. variabilis magnifica*). Semi-herbaceous plant; it will die down to the ground. We recommend covering the roots with manure as winter approaches. Blooms the first season; the blossoms are borne on long, graceful stems which terminate in tapering panicles of lilac colored flowers. **Each, 35c; 3 for \$1.00.**

Calycanthus

SWEET SCENTED SHRUB. A unique shrub growing upright to 6 feet, clothing its straight, strong, reddish brown shoots with large, glossy leaves from the axils of which spring odd, double, spicily fragrant flowers of chocolate-red. 18 to 24 in. **Each, 35c; 3 for \$1.00.**

Dogwood - Cornus

RED TWIGGED (*Sanguinea*). Grows 10 to 12 feet high, purple or dark blood-red branches. Flowers greenish-white. Fruit is black. 2 to 3 ft. **Each, 35c; 3 for \$1.00.**

Cydonia - Firebush

JAPAN (*C. japonica*). Common garden form, growing from 3 to 6 feet with spreading, spicy branches. The scarlet-red flowers appear before the leaves and are followed by globular fruits from 1½ to 2 in. high. 18 to 24 in. **Each, 35c; 3 for \$1.00.**

Deutzia

PRIDE OF ROCHESTER. Showy, early, large flowering sort; blossoms in May before others. Grows 6 to 8 feet high. White flowers, large and double. 18 to 24 in. **Each, 35c; 3 for \$1.00.**

GRACILIS. A handsome, dwarf and bushy little shrub with slender, often arching branches. A neat shrub that blooms in May, clothing its branches in pure white flowers. Valuable for shrubberies or for forcing. 12 to 18 in. **Each, 35c; 3 for \$1.00.**

Golden Bell - Forsythia

FORTUNE'S. Grows with upright or arching branches. 2 to 3 ft. **Each, 35c; 3 for \$1.00.**

SPECTABILIS. Strong grower. Showiest of all Forsythias. Of extremely dense flowering habit. Every branch is closely covered with striking yellow flowers before the foliage appears. 2 to 3 ft. **Each, 35c; 3 for \$1.00.**



Golden Bell Forsythia.

Hydrangea

ARBORESCENS GRANDIFLORA (*Hills of Snow*). The flowers are in a large way, similar to the familiar "Snowball" in appearance; conspicuously white and imposing. July to September. By cutting back to the crown each spring, the bushes may be kept round and dense at a normal height of 3 to 5 feet. They are excellent for solid low borders or in foundation plantings, which will allow for about four feet. 18 to 24 in. **Each, 35c; 3 for \$1.00.**

PANICULATA GRANDIFLORA. Fine tall hedges, or if planted in rich soil and severely pruned every spring before the leaf buds open, will get to be very dense, dwarf clumps of compact form; wonderfully attractive when laden with their massive white plumes. Large beds, kept at a uniform development are extremely showy, first, snowy white, then pink, then reddish bronze. 18 to 24 in. **Each, 35c; 3 for \$1.00.**

Kolkwitzia - Beauty Bush

Shrub, growing from 6 to 8 feet tall, the whole plant forming a dome-shaped mass. The flowers are produced along the whole length of the branches in clusters at the ends of short, leafy shoots. Flowers pink. **New low price: Heavy, 4-year-old plants, 2 to 3 ft., each, 35c; 3 for \$1.00.**

Lilac - Syringa

Old-Fashioned Fragrant Flower

CHAS. X. Large, rather loose, reddish purple trusses.

MME. LEMOINE. One of the best double whites.

PRESIDENT GREY. Large, double blue flowers.

PERSIAN LILAC. Long, arching branches, good foliage, lavender flowers. All above 18 inches. **Each, 35c; 3 for \$1.00.**

Honeysuckle - Lonicera

TARTARIAN (*L. tatarica alba*). This is one of the old-time favorite shrubs. Ten feet in height and is extremely easy to cultivate. 18 to 24 inches. **Each, 35c; 3 for \$1.00.**

Philadelphus

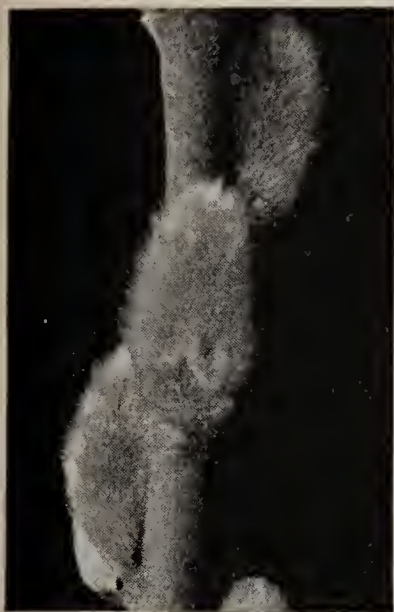
SYRINGA GRANDIFLORA. Large flowering shrub, growing to about eight feet, with spreading branches, usually upright, and vigorous flowers slightly fragrant. Rapid grower and most hardy. 18 to 24 in. **Each, 35c; 3 for \$1.00.**

PHILADELPHUS, VIRGINAL. Blooms throughout the season. This is a new and wonderful addition to the Mock Orange family but is far beyond anything in this line that has been brought out in the past. It is without question one of the most beautiful shrubs grown. 2 to 3 ft. **Each, 35c; 3 for \$1.00.**

We do not guarantee or replace plants, shrubs or trees, at prices quoted. For planning the use of shrubs we recommend the book "Shrubs," described on page 95.



Lilac—Syringa.



French Pussy Willow.

Tamarix

These plants are very beautiful all the year, in winter for their coloring of the bark and in summer for the light green, feathery foliage and large loose panicles of purplish flowers.

AFRICANA. Is an upright grower. Blooms in May. 2 to 3 ft. **Each, 35c; 3 for \$1.00.**

Viburnum - Snowball

ARROW WOOD (V. dentatum). A gorgeous upright, native shrub, thriving best in moist soil. It blooms in May or June, followed by black fruit. 2 to 3 ft. **Each, 35c; 3 for \$1.00.**

HIGHBUSH CRANBERRY (V. opulus). Handsome native shrub attaining 12 feet. Pure white flowers appear in May and June, followed by decorative fruits, which remain on the branches and keep their bright scarlet color until the following spring. 18 to 24 in. **Each, 35c; 3 for \$1.00.**

HEDGE PLANTS—*Beautify with Hedges*

AMOOR RIVER PRIVET. Hardest of all hedge plants. Upright growth, very compact. Holds foliage till October or later. 12-18 inch, 25 for \$1.65; 100 for \$6.00. 18-24 inch, 25 for \$2.00; 100 for \$7.00.

CALIFORNIA PRIVET. Free growth and succeeds under adverse conditions; good in south. Foliage is nearly evergreen, remaining on the plant until mid-winter. Nice plants. 12-18 inch, 25 for \$1.50; 100 for \$4.00. 18-24 inch, 25 for \$1.75; 100 for \$6.25.

JAPANESE BARBERRY (Berberis Thunbergi). One of the best hedge plants in existence. Beautiful throughout the year; abundant crop of bright red berries in winter. Compact growth and thorny branches make a defensive hedge that will turn cattle after five years growth. Poor soil is no barrier. 10-15 inch, 25 for \$2.00; 100 for \$6.50.

RED-LEAVED BARBERRY. Finest shrub in recent years. Bright red in the spring, stays red through the summer and deepens to a deep crimson in the fall. Red berries stay on all winter. Unequaled for bright coloring. All that is required to develop its brilliant coloring at all seasons is that it be planted in full exposure to the sun. 18-24 inch, each, 25c; 25 for \$4.75.

HARDY VINES

Clematis

PANICULATA. Extremely showy when covered with small, white, fragrant flowers which appear late in the season. Beautiful, shiny, green foliage. **Each, 50c.**

JACKMANI. One of the best known of all the Clematis. The velvety purple flowers, when expanded, are 4 to 6 inches across, very velvety and distinctly veined. We send out strong, healthy roots of Clematis and cannot entertain any claims for non-success with these plants. **Each, 75c.**

We do not guarantee or replace plants, shrubs or trees, at prices quoted.

Pussy Willow

PUSSY WILLOW (Not the Wild Pussy Willow). Dainty silvery flowers every winter. A beautiful round shrub in summer. Wherever you have room for a Lilac or Snowball, you have room for a Pussy Willow. Use them for tall screens or backgrounds. Cut the ends of the branches in January or February. Place them indoors in a vase of water. Watch them unfold their large catkins of silvery pink, from 1 to 2 inches long. **Price, 2 to 3 ft., each, 35c. 3 for \$1.00.**

Rhus Cotinus - Smoke Tree

Unique, spreading tree-like shrub with large leaves. Overhung in midsummer by cloud-like masses of very light, mist-like flowers, having the appearance of smoke. Foliage changing to a brilliant shade of red and yellow in autumn. 18 to 24 inches. **Each, 35c; 3 for \$1.00.**

Snowberry

SYMPHORICARPOS (White Snowberry). Hardy shrub from two to three feet high, excellent for massing in the lower parts of a bed or border. Rose-colored flowers appear in July and August. The white wax-like berries remain on until late in the autumn. 2 to 3 feet. **Each, 35c; 3 for \$1.00.**

SNOWBERRY, RED. Slender arching shrub, very showy in autumn when covered with bunches of bright, coral-pink, small fruits which hang on nearly all winter. 2 to 3 ft. **Each, 35c; 3 for \$1.00.**

Spirea - The Most Popular Shrub

ANTHONY WATERER (F). Bright pink, June and July. A compact low-growing shrub with dense foliage. Flowers are borne in full flat clusters on erect stems. Very valuable for edging in front of shrubbery or as a dwarf hedge. 12 to 18 in. **Each, 35c; 3 for \$1.00.**

SPIREA VAN HOUTTEI. 4 to 6 ft. White. May. This is the most useful of the hardy shrubs. The flowers are in flat clusters, usually an inch or more across, produced by spreading, pendulous branches often drooping to the ground. 2 to 3 ft. **Each, 35c; 3 for \$1.00.**

Weigelas

ROSEA. A choice, vigorous sort, which yields an immense crop of deep pink trumpet-like flowers in June, and bears a scattering of blossoms through the rest of the season. 2 to 3 ft. **Each, 35c; 3 for \$1.00.**

EVA RATHKE. The flowers are a deep carmine-red, erect growing. A most profuse bloomer in spring and again in autumn. 18 to 24 in. **Each, 35c; 3 for \$1.00.**



Japanese Barberry.

SPIREA VAN HOUTTEI. With its charming and delicate foliage it is one of the finest of shrubs for hedges. It never fails to attract with its perfect mass of pure white flowers on pendulous branches often drooping to the ground. Foliage is attractive late in fall. 18-24 inch, 12 for 90c; 50 for \$3.50.

Honeysuckle - Lonicera

HALL'S JAPAN EVERGREEN HONEYSUCKLE. Honeysuckles are well adapted for the covering of walls, arbors, etc. Leaves remain on during the winter. The flowers are white turning to yellow, very fragrant. **Each, 25c.**

Wisteria

CHINESE WISTERIA (W. sinensis). Will bloom the first year. Has pale green leaves and bears profusely in dense, drooping clusters, purplish, pea-shaped flowers. Blooms in May. **Each, 50c.**

Ornamental and Shade Trees

Ash

EUROPEAN MOUNTAIN (*Sorbus aucuparia*). An ornamental deciduous tree with beautiful foliage which turns orange-red in fall; fruits showy, often remaining all winter. 6 to 8 ft. Each, \$1.00.

Catalpa Bungei

UMBRELLA TREE. A broad, dome-shaped head at the top of a long straight stem. When the tree attains its full growth the top is often 15 feet in diameter and not over 3 to 4 feet tall on top of a strong stem from 5 to 7 feet in height. An exceptionally hardy variety. 5 to 7 ft., 1 year heads. Each, 75c.

Cercis

AMERICAN REDBUD. Exceedingly showy small tree in early spring when covered with small bright cerise flowers. Makes brilliant effect. 4 to 5 ft. Each, 75c.

Crataegus

SCARLET FRUITED THORN. The beautiful scarlet fruits of this tree are very attractive in late fall and early winter. It is a low growing tree, very symmetrical in shape, perfectly hardy. The foliage is always bright and attractive. 2 to 3 ft. Each, 50c.

Elms - Ulmus

AMERICAN (*U. americana*). Very valuable for park planting, for avenues and as a shade tree for lawns. One of the most majestic and graceful of our shade trees. Hardy, a rapid grower, resists drought well, long lived. 6 to 8 ft. Each, \$1.00.

ULMUS PUMILA. A new variety of Elm. A native of China. Rapid growing tree, forming a very dense head, with smaller, darker leaves than the American Elm. 6 to 8 ft. Each, \$1.25.

Laburnum

GOLDEN CHAIN TREE. Small tree about 20 feet high with long clusters of bright yellow, pea-shaped flowers, looking something like wisteria. Very ornamental. 2 to 3 ft. Each, 50c.



Lombardy Poplar.



Norway Maple.

Magnolia

The finest magnolia grown. It grows as far north as Detroit. Immense cup-shaped flowers 4 to 5 inches across. The flowers, appearing before the foliage, create a wonderful scene and can be seen for blocks. 12 to 18 in. Each, \$1.50.

Maple

SILVER (*A. saccharinum*). Best known of all Maples. Wide, slender spreading branches. Thrives almost anywhere. 6 to 8 ft. Each, \$1.00.

NORWAY (*A. platanoides*). Large, handsome tree with a compact rounded head. One of the best and most beautiful trees for the street, the park, cemetery, or lawn planting. 6 to 8 ft. Each, \$1.25.

BLOOD RED JAPANESE (*A. palmatum atropurpureum*). A small tree or shrub, valued for its blood-red leaves and bright red branches, of dense growing habit. The delicate leaves are very showy and are fine

as specimens, or can be used with evergreen plantings to good advantage. Dug with ball of earth and burlapped. Price, 15 to 18 in. plants, each \$1.50.

Poplar

LOMBARDY (*Populus nigra* var. *italica*). The Lombardy Poplar becomes one of the most striking and picturesque trees, particularly when some of the sprouts are allowed to grow about the old stock. 6 to 8 ft. Each, 50c.

Rose Tree of China

THE ROSE TREE OF CHINA (*Prunus triloba*). Is the most beautiful and showy of all small trees. Blooms before the leaves appear in the spring, with double rose-like pink flowers. As an ornament from early spring until late fall it has few equals. 2 to 3 ft. Each, 75c.

Weeping Willow

GOLDEN WEEPING (*Salix elegantissima*). A strong and the most vigorous grower of all the weeping willows. For planting in low places or on the banks of streams, springs, lakes or ponds, making a very beautiful effect. 6-8 ft. Each, \$1.00.



Weeping Willow.

For Shady Lawns Use Our "SHADY NOOK" Lawn Seed. See page 1.

Fruit Trees

Select thrifty trees in preference to old or very large ones: the roots are more tender and fibrous and they bear transplanting better and are more apt to thrive; they can also be more easily trimmed and shaped to any desired form, and in the course of a few years will usually outstrip the older ones in growth. If not prepared to plant when your stock arrives, "heel in" by digging a trench deep enough to admit all the roots and setting the trees therein, carefully pack the earth about the roots, taking up when required. Never leave the roots exposed to the sun and air. We do not guarantee to replace plants or trees.

Peach

Height	Each	3 Trees	10 Trees
3-4 feet	\$.30	\$.80	\$2.50
4-6 feet	.40	1.10	3.50

- GOLDEN JUBILEE PEACH.** New, early freestone, highly colored. Good shipper.
- BIG RED.** New, freestone, very good.
- ELBERTA.** High colored yellow freestone. One of the best. Most planted.
- J. H. HALE.** Larger and earlier than Elberta. Splendid commercial peach.
- SOUTH HAVEN.** Early yellow freestone. Very good.

Apples

Height	Each	3 Trees	10 Trees
3-4 feet	\$.35	\$1.00	\$3.00
4-6 feet	.50	1.40	4.00

- YELLOW TRANSPARENT.** Summer. Clear white, turning pale yellow.
- JONATHAN.** Early winter. Red, smooth, fine quality. Good keeper.
- GRIMES GOLDEN.** Early winter. Bright yellow, pink cheek, highest quality.
- DELICIOUS.** Early winter. Large, brilliant dark red, splendid shipper.
- STAYMAN'S WINESAP.** Early. Very productive, skin greenish purple, flesh yellow, firm, juicy.
- ROME BEAUTY.** Early winter. Good keeper, mottled and striped in shades of red.
- GALLIA BEAUTY.** Best of Red Rome Beauty sports, bright red, superior quality.
- WINESAP.** Large winter. Dark red, juicy, good commercial.
- TRANSCENDENT CRAB.** Brownish yellow with blush of carmine, crisp, firm.

Cherry

Height	Each	3 Trees	10 Trees
3-4 feet	\$.35	\$1.00	\$3.00
4-5 feet	.45	1.25	3.75

- EARLY RICHMOND.** Old favorite, very hardy, sour, good for cooking.
- MONTMORENCY.** Larger than Early Richmond, later, best for shipping.
- BRASSINGTON.** Earlier than Montmorency, very productive, mild, good size.
- GOV. WOOD.** Sweet, pinkish yellow, flesh soft, early, regular crops.
- YELLOW SPANISH.** Sweet, yellow, flesh firm, best and most popular sweet.

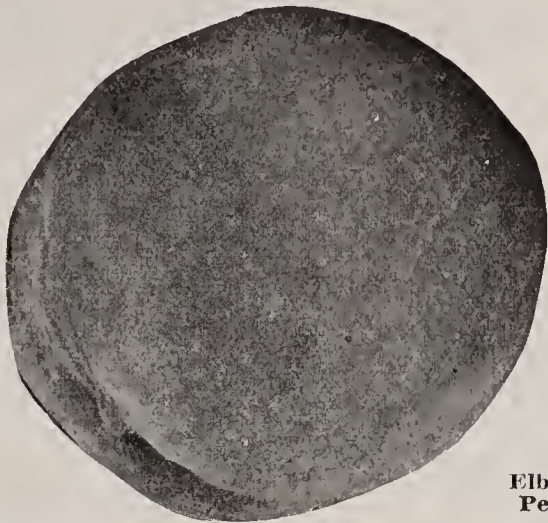
Plum

Height	Each	3 Trees	10 Trees
3-4 feet	\$.45	\$1.20	\$3.60
4-5 feet	.55	1.50	4.50

- ABUNDANCE.** One of the best Japanese plums, bears young; rich bright red with light yellow flesh, excellent quality.
- GERMAN PRUNE.** Purple, medium size, splendid for preserving.
- GREEN GAGE.** Yellowish green, stone nearly free, high quality for canning.
- IMPERIAL EPINEAUSE.** Reddish purple, rich flavor. New.
- STANLEY,** New, blue prune plum. One of the best of newer varieties.

Hardy Apricot

A real hardy apricot. Imported from Hungary a few years ago. Comes into bearing very young and seldom misses a crop. Quality of fruit is excellent, and it is good sized. Beautiful in bloom and when tree is in fruit. Now offered for the first time. 3-4 feet. Each, 75c,



Elberta Peach.



Gallia Beauty Apple.

Pear

Height	Each	3 Trees	10 Trees
3-4 feet	\$0.45	\$1.20	\$3.60
4-5 feet	.55	1.50	4.50

- BARTLETT.** Large, early, yellow, with blush next to sun, juicy, very popular.
- CLAPP'S FAVORITE.** Large, fine, pale yellow with brown dots, fine texture.
- ANJOU.** Large, very productive, late.

Quince

- 3-4 feet. Each, 75c; 2 for \$1.35.
- ORANGE.** Large, round, bright golden yellow. Excellent flavor. Abundant bearer, good for market. Best late variety.
- CHAMPION.** Bears early. Fruit is large, oval, rich color and excellent quality. Ripens late and keeps well.

Nut Trees

- FILBERTS (American).** The common Hazel-nut. Will grow in almost any location. 2-3 feet. Each, 50c.
- WHITE WALNUT OR BUTTERNUT.** This tree is chiefly esteemed for its abundant crop of fruit, which abounds in oil, and is sweet and rich. The form of the nut is oblong, oval, and narrowed to a point at the extremity. The tree is considered valuable as a park tree. 2-3 feet. Each, 50c.

Asparagus Roots

- WASHINGTON.** (Rust resistant). A new rust resisting pedigreed Asparagus. It stands ahead of all others in size, vigor, tenderness and quality. 2-yr. roots, 25 for 60c; 100 for \$2.00, postage extra.

DISTANCES FOR PLANTING. Apples, 30 to 40 ft. Pears, 18 to 20 ft. Quinces, 10 to 12 ft. Peaches, 16 to 18 ft. Cherries, sweet, 18 to 20 ft. Cherries, sour, 15 to 18 ft. Plums, 16 to 20 ft.

ALL PRICES IN THIS CATALOG SUBJECT TO CHANGE WITHOUT NOTICE. WE DO NOT GUARANTEE OR REPLACE PLANTS, SHRUBS OR TREES, AT PRICES QUOTED.

GRAPE VINES and SMALL FRUITS

Grape Vines

ALL TWO-YEAR-OLD SELECTED STOCK

2-year-old varieties: Each, 20c; 5, 90c; 10, \$1.75; 25, \$4.00; 100, \$14.50.

Write for Special Prices on 1,000 lots

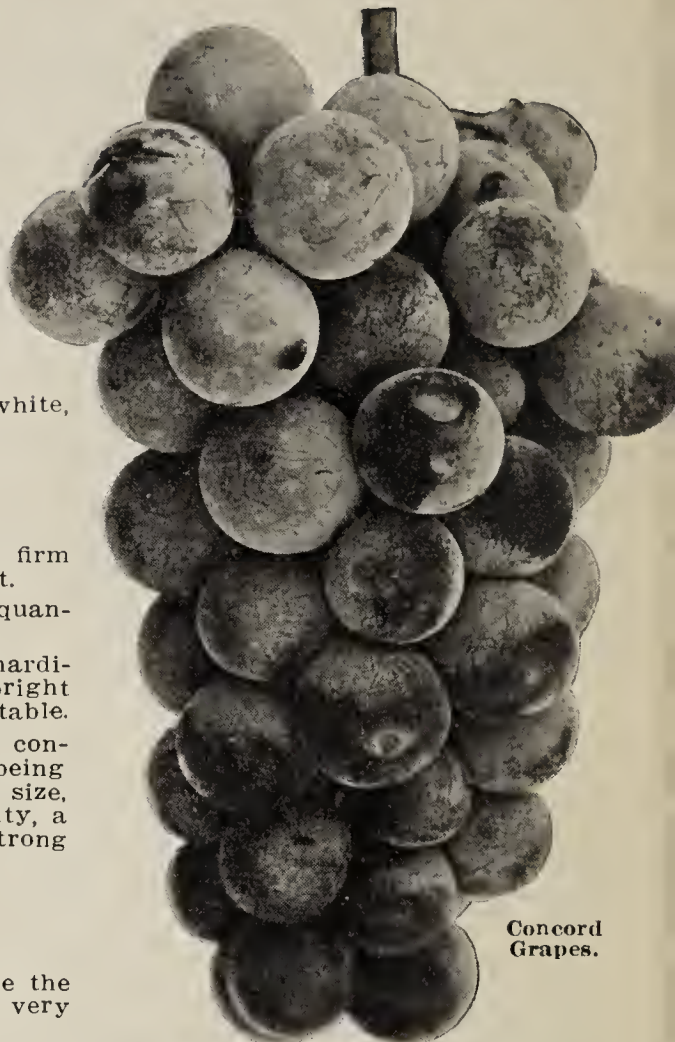
***CONCORD.** Large, black grape, hardy and productive; juicy and sweet.

WORDEN. A black grape that resembles Concord, but of higher quality and ripens a week to ten days earlier.

***CATAWBA.** Berries large, round, when ripe a dark copper color; sweet, rich, musky flavor.

DELAWARE. Small, light red, thin skin, very juicy, sweet, fine flavor.

***NIAGARA.** Vine remarkably hardy and strong grower; bunches very large and compact; berries large, greenish white, slightly ambered in the sun; skin thin but tough.



Concord Grapes.

Raspberries

25 for \$1.35; 100 for \$3.50.

CUMBERLAND RASPBERRY. The largest of all blackcaps; firm and a good shipper, and one of the most profitable in market.

LATHAM. Splendid strong growing kind, produces immense quantities of bright red extra large berries.

CHIEF. New variety. Ripens earlier than Latham, greater hardiness, more disease resistant, bears more abundantly. Fruit bright red, somewhat smaller than Latham. One of the most profitable.

ST. REGIS. Fruit commences to ripen with the earliest and continuing on young canes until October, many quarts often being picked after the first snowfall. Berries bright crimson, large size, rich, sugary, with full raspberry flavor. Flesh firm and meaty, a good shipper. Wonderfully prolific. Canes stocky, of strong growth, with abundance of dark green leathery foliage.

Blackberries

25 for \$1.25; 100 for \$4.00.

ELDORADO. Comparatively new variety, and has proven to be the best of all blackberries under cultivation. Very hardy. Fruit very large, jet black, good shipper, good quality, great producer.

Dewberry

25 for \$1.25; 100 for \$4.00.

LUCRETIA DEWBERRY. Hardy, productive, best variety, sweet. Highly recommended.

★ Currants

25c each; \$2.00 per dozen.

CHERRY. Fruit large, bunch small, deep red, acid.

POMONA. Bright red, extra fine quality and enormously productive; strong, vigorous grower.

★ Gooseberries

25c each; \$2.00 per dozen.

DOWNING. Very large and fine quality.

★**NOTE**—Due to Federal Quarantine No. 63, we do not accept orders for Currants or Gooseberries to be shipped or delivered out of the State of Ohio.

Strawberries

25 plants, 50 cents; 100 plants, \$1.25.

1000 plants of one variety, \$7.00.

SENATOR DUNLAP. The demand for this variety has been increasing steadily, as it has an unusually long fruiting season. It bears immense quantities of large, handsome, rich, fine flavored, dark red berries.

PREMIER. Also called Howard, is a little lighter than Dunlap, of large size and good quality. Plants healthy, vigorous, productive, and have a long bearing season. It is frost resistant in both bud and blossom.

LADY CORNEILLE. This wonderful Strawberry has more good qualities than ever before combined in any one berry. It is the healthiest, thriftiest, best growing plant with clean foliage, absolutely free of rust or leaf spot; plants large, strong, with large roots that grow deep in the ground. Thrives in both clay and loamy soil. Ripens same time as Senator Dunlap. Berries large, rich, glossy red, and of the best quality.

AROMA. One of the finest for long distance shipping. The large berries are bright red to the center. Of conical shape, with prominent yellow seeds that help to make them very attractive on market. The Aroma has three outstanding points: its large size, its very bright color and the very fragrant aroma.

FALL OR EVERBEARING STRAWBERRIES

MASTODON. The Mastodon, which is a recent introduction, is a fall-bearing variety of great promise. Should give excellent results where water can be applied during dry weather and where special attention can be given to the plants. Per dozen, 50c; per 100, \$2.50.

Distances for Planting. Grapes, rows 10 to 16 feet apart, 7 to 10 feet in rows. Blackberries, 5 to 7 feet apart, 3 to 5 feet in rows. Currants, 4 feet apart each way. Gooseberries, 4 feet apart each way. Raspberries, rows 5 feet apart, 3 feet in rows. Strawberries, for field culture, rows 3 to 3½ feet apart, 1 to 1½ feet in rows; for garden culture, plant in beds 4 feet wide, 3 rows in each bed, plant 1 foot apart in rows.



INSECTICIDES AND FUNGICIDES

Insecticides prefixed by (*) cannot be sent by mail.

ANTROL ANT POWDER

FOR QUICK RELIEF FROM ANTS, ROACHES, SILVERFISH!



A special composition makes Antrol Ant Powder kill quicker by actual test. More powerful, yet costs less. Safe anywhere. Clean and easy to use. Endorsed by Good Housekeeping Magazine. Ideal for apartments, camps, summer homes, etc.

Handy 2-oz. shaker can25c
Handy 4-oz. shaker can40c

*ACME ALL ROUND SPRAY. Flowers, vines, shrubs, roses, vegetables, need protection same as commercial crop. All Round Spray contains the three leading remedies used by all large growers, Arsenate of Lead, Nicotine Sulphate and Bordeaux Mixture.



Perfect protection for the small user is assured by complete directions in form of spraying guide attached to every package.

¼ lb., 40c; 1 lb.90c

*ACME 2-WAY SPRAY. An approved balanced Insecticide and Fungicide containing 14% Arsenate of Lead and 83% Bordeaux Mixture—2 results with one spray. Controls insects, combats Blight, stimulates foliage.

Easy to Apply—wet or dry—For dusting, apply lightly, as it comes in the package.

In spraying apples, grapes, muskmelons, potatoes, squash and tomatoes, use 9½ level tablespoonfuls to 1 gallon of water.

On pears, sour cherries, eggplant and peppers, use 7 level tablespoonfuls to 1 gallon of water.

1 lb., 40c; 4 lbs.\$1.00

ANTROL

KILLS ANTS IN THE NEST!

Antrol is easy to use, economical, safe around children and pets. Consists of small glass containers from which worker ants carry special Antrol Syrup to their nests for food. The whole ant family is quickly killed at the source—the only way to get permanent relief. Controls both sweet and grease-eating ants.

Antrol containers are heavy glass, with rust-proof aluminum lids. May be refilled and used year after year. Adapted to any size home or garden. Guaranteed. Proved in over a million homes.

Prices. Antrol Ready-filled Set, containing 4 filled Feeders50c

Antrol Regular Set, 4 Containers and 4-oz. Bottle Syrup, enough for two fillings75c

Antrol Syrup for Refilling, 4-oz. bottle35c

Antrol Syrup for Refilling, pint bottle85c

Antrol Syrup for Refilling, gallon\$3.50

*ARSENATE OF LEAD. One of the best and most effective of poisonous insecticides for leaf-eating insects, and more especially adapted to trees and shrubs, as it adheres to the foliage better. It is not so liable to be washed off by rains and does not burn.

Dry, ½ lb., 20c; 1 lb., 30c; 4 lbs., 75c; 12 lbs.,\$2.15



Ready Filled Set



Regular Set.

ATLACIDE

CHLORATE WEED KILLER

A NON-POISONOUS WEED KILLER. Can be dissolved in water and applied as a spray or can be dusted on the weed growth from the Sifter Topped Cans. Very effective on poison ivy.

1-lb. Sifter Top Cans (kills 100 to 450 sq. ft. of weeds) 50c;
3½-lb. Sifter Top Cans (kills 350 to 1500 sq. ft. of weeds)\$1.50

*BLACK LEAF 40 (40% Nicotine Sulphate). Kills by contact and fumes. Highly recommended by Experiment Stations as a control for aphids, thrip, leaf-hopper and other insects of like nature. Can also be used for delousing poultry by painting Black Leaf 40 (full strength) on the top-sides of the roosts before fowls perch for the night.

1-oz. bottle, 35c; 5-oz. bottle, \$1.00; 1-lb. bottle, \$2.25; 2-lb. tin, \$3.25; 5-lb. tin, \$5.85; 10-lb. tin\$9.85

*BORDEAUX MIXTURE. For blight, mildew and all fungous disease. Can be used alone or in connection with Paris Green or Arsenate of Lead.

1 lb., 30c; 4 lbs., 75c; 12 lbs.,\$2.15

*CALCIUM ARSENATE (Dry). For control of certain chewing insects on potatoes, tomatoes, cabbage and most other vegetables.

1 lb., 25c; 4 lbs.,50c.



CYANOOGAS

REG. U.S. PAT. OFF.

*CALCIUM CYANIDE (Cyanogas G). For greenhouse fumigation.

5 lbs.\$3.00

*CALCIUM CYANIDE (Cyanogas A). Dust to kill rats, mice, moles, land crabs, woodchucks, ground squirrels, etc.

½ lb., 45c; 1 lb., 75c; 5 lbs.,\$3.00

CUBOR

A contact and stomach insect poison and fully effective against chewing and sucking plant insects. Non-poisonous to human, animal or bird life. Will not stain or damage tender foliage or flowers. Requires no soap or other spreader.

1-oz. bottle, 35c; 6-oz. bottle, \$1.00; 16-oz. can,\$2.00

CUTWORM KILLER. See "Snarol".

EVER GREEN

New Ever Green Spray kills plant insects such as aphids, leaf rollers, and many others. It is the only spray 95% of gardeners ever need. Its pyrethrin content is deadly to both chewing and sucking insects. There are no complicated instructions. You simply mix with water and spray. It is harmless to plants, men and animals. Won't injure soil. And it's economical.

1-oz. bottle, 35c; 6-oz. can \$1.00; 16-oz. can, \$2.00; 1-gal. can, \$12.00; 5-gal. can\$50.00



EVER GREEN 20. For commercial growers; a highly concentrated pyrethrum plant insecticide.

Gal., \$16.00; 5 gals.\$68.75

LIME AND SULPHUR (Dry). Mixes with water. A standard lime and sulphur converted into a dry powder but having all the effectiveness of the liquid product when dissolved in water. For use in dormant spraying against scale, peach blight, leaf curl and twig borer. Summer spraying against scab, soot, blotch, red spider and mite.

1 lb., 30c; 5 lbs., \$1.25; 10 lbs., \$2.25; 25 lbs.,\$4.00

MANGANAR ROSE DUST. An efficient preventative for black spot, brown canker, mildew and a control for most leaf-eating insects.

1 lb., 40c; 5 lbs.,\$1.50

*MAGNESIUM ARSENATE DUST MIXTURE. For Control of Mexican Bean Beetle. This material is a prepared product all ready for use. Contains genuine Magnesium Arsenate properly blended with hydrated lime in accordance with official governmental recommendation. It is recommended by government and state extension authorities as best control of the Mexican Bean Beetle; may be used with equal results on cucumbers, melons and on flowers or plants of tender foliage. Will not burn.

Per lb., 35c; 4 lbs., 75c; 12 lbs.,\$2.00

*NICO-FUME LIQUID. For destroying aphids, thrip and red spider, making a good insecticide for fumigating greenhouses. Contains 40 per cent nicotine.

4 lbs., \$5.75; 8 lbs.,\$10.00

INSECTICIDES AND FUNGICIDES—Continued

NAPHTHALENE FLAKES. Scattering naphthalene flakes among the gladiolus corms after they are placed in storage during the fall and winter months, gives added protection against gladiolus thrips. Use 1 oz. for 100 corms or 1 pound per bushel.
Per lb., 15c; 2 lbs.,25c

***NICO-FUME TOBACCO POWDER.** For florists and growers who prefer a high-strength, specially prepared, tobacco powder fumigant, to destroy aphids, thrip, etc., we hereby offer "Nico-Fume" Powder, which may confidently be relied upon as being worthy to bear the name of "Nico-Fume."
5-lb. tin, \$3.35; 10-lb. tin\$5.85

PARA-DICHLOROBENZENE. For killing the peach tree borers. Can be used successfully only during August and September as it is not effective if used at other seasons. Do not use on very young trees.
Per lb., 40c; 5 lbs., \$1.75; 10 lbs.,\$3.25



***PARIS GREEN.** A rich emerald color and of fine fluffy physical character. Containing 55 per cent arsenious oxide, it will give quickest control where extreme measures are necessary. For use on potatoes, tobacco, also to mix with arsenate of lead for fruit tree spraying where quick results are necessary.
1 lb., 50c; 5 lbs.,\$2.00

FISH OIL SOAP. One of the best and safest remedies for sucking insects and plant lice on vegetables, ferns, shrubs and trees. It is also effective for preventing and destroying borers in trees when used as a wash.
1 lb., 25c; 5 lbs.,\$1.10

CONQUERS MILDEW AND BLACK SPOT

A highly concentrated fungicide invisible on the foliage or blooms. Fungtrogen is the most effective and scientific preventative and remedy for mildew, black spot and other fungoid diseases of roses and other plants.

It is equally valuable for rust on carnations grown under glass as well as snapdragons, etc., imparting a sturdy vigor heretofore considered impossible. Fungtrogen is a complete spray easily diluted in water, making 60 times its volume. Endorsed by leading Rosarians.
½ pint, 75c; pint, \$1.25; quart, \$2.00; gallon,\$6.00.
Postage Extra.



GRAPE AND ROSE DUST. Prevent mildew and black spot. This ideal dusting fungicide is easy and safe to use. Green in color—not unsightly.
1 lb., 40c; 5 lbs.,\$1.50

Insectrogen

KILLS MOST LEAF-EATING INSECTS
pillars, slug worms, Japanese beetle, etc., and has definite fungicidal value for black spot on roses. An effective destroyer of leaf tier on chrysanthemums grown under glass, etc. Use Insectrogen alternately as a companion spray with the famous fungicide, Fungtrogen. This results in unusually fine foliage and blooms heretofore unattainable as to color, form and general beauty. Ready to use when mixed with water 60 times its volume.

4 ozs., 60c; ½ pint, \$1.00; pint, \$1.75; quart.....\$2.75

KILLS APHIS (Plant Lice)

A scientific aphicide perfected by Rose specialists, that quickly rids your plants of the destructive tiny green or pink insects, commonly called plant lice, which weaken the plant and carry disease. Aphistrogen also refreshes the foliage and is effective on all plants either outdoors or in the house. Aphistrogen will not turn the foliage yellow. It is invisible on plants and non-poisonous. Simply mix with sixty times its volume of water.

2 ounces, 50c; ½ lb., \$1.25; 1 lb.....\$2.25



***POMO-GREEN with NICOTINE.** The leaf-green all-in-one Dust or Spray. A combination material which controls fungous diseases and kills both leaf-eating insects and aphids and requires no supplementary material for complete disease and insect pest control on flowering plants. Leaf-green in color and never unsightly on plants. Both dusting and spraying directions on each package.
1 lb., 75c; 5 lbs.,\$3.00



RED ARROW

NON-POISONOUS

INSECT SPRAY

(PYRETHRUM DERRIS SOAP)

The Perfected Flower and Vegetable Garden Spray
Simply mix with water and spray. Effective against aphids, leaf hoppers, cucumber beetles, cabbage worms, thrips, cut worms, Mexican Bean Beetle and most other plant insects.

Economical. The most highly concentrated pyrethrum spray obtainable, assuring low cost per gallon of finished spray.

Non-poisonous. Red Arrow is harmless to man, pets, live stock and birds.

Does not leave poisonous residue on fruits and vegetables and consequently eliminates expensive washing process.

Absolutely non-toxic to the soil and may be used freely on tender foliage. Simply mix with water as directed. No unpleasant odors or dangerous fumes.

Red Arrow will not clog nozzle of sprayers.

1 oz., 35c; ¼ pint, \$1.00; ½ pint, \$1.75; pint, \$3.25; quart, \$4.50; gallon\$15.00

ROTECIDE

The Standard Rotenone Spray

The doubly effective (contact and stomach poison) Rotenone insect spray kills red spiders, cyclamen mites, mealy bugs, cabbage worms, beetles, thrips, aphids (plant lice) and various other insects unusually difficult to control. Rotecide is non-poisonous to birds, animals or humans. Positively will not burn or discolor the most tender foliage. A complete spray, simply add water.

1-oz. bottle, 35c; 8-oz. bottle, \$1.00; 1 pt., \$1.75; 1 qt., \$3.00; 1 gallon\$8.00

SCALECIDE

THE COMPLETE DORMANT SPRAY

SCALECIDE. Oldest, safest and best known dormant spray for fruit trees, shrubs and vines. Used by leading fruit growers. Pleasant to use. For scale, aphids, red mite, leaf roller and other pests. Dilute 1 to 15.

Qt., 60c; 1 gal., \$1.40; 5 gals., \$4.90; 10 gals., \$8.50; 15-gal. drums, \$12.00; 30-gal. drums, \$19.00; 50-gal. drums,\$26.50

NOTE—The following cash refund made when drums are returned in good condition: 15-gal. drums, \$2.00; 30-gal. drums, \$2.50; 50-gal drums,\$3.00



Selocide KILLS Red Spiders!

Just one application of Selocide will wipe out 90% to 100% of red spiders. Selocide is based on Selenium, a powerful new killing agent. Does not remove bloom from carnations. Helps to control mildew. Made by the makers of Ever Green.

1 qt., \$1.00; 1 gal.\$2.75

SLUG SHOT, HAMMOND'S. One of the best insecticides for vegetables and flowers. Non-poisonous to human life.

1 lb., 25c; 5-lb., pkg., \$1.00; 25-lb., pkg.\$4.00

SNAROL

KILLS GARDEN PESTS

Cutworms, Sowbugs, Grasshoppers, Slugs, Snails, Earwigs, Etc., Are Quickly Exterminated.

SNAROL is a ready-prepared meal that you simply broadcast on the ground, under the vegetation. It will not deteriorate from rain or sprinkling. Thus it lasts longer and is more economical. It is non-injurious to vegetation.

1½-lb. pkg., 35c; 4-lb. pkg., 85c; 15-lb. bag, \$3.00; 50-lb. bag\$8.00

SULFORON. The wettable sulphur. For control of mildew on roses and similar diseases on other ornamentals.

4-lb. pkg.50c



Insecticides prefixed by (*) cannot be sent by mail.

INSECTICIDES AND FUNGICIDES—Continued

DUSTING SULPHUR. Used principally to prevent and control mildew on roses and other plants.

3 lbs., 35c; 5 lbs., 50c; 10 lbs., 90c

TOBACCO DUST. A good remedy for green fly, aphids, fleas, beetles, etc.

1 lb., 10c; 3 lbs., 25c; 10 lbs., 65c; 100 lbs., \$4.50

TOBACCO STEMS. Used for fumigating plants to kill insects, and as a mulch for roses, asters, lettuce, etc.

Bale of about 100 lbs., \$1.75

TREE TANGLEFOOT. For protecting trees against climbing insect pests in a simple, economical and effective way; put a band of Tree Tanglefoot, from 3 to 5 inches wide, completely around the tree. A perfect safeguard against gypsy, brown-tail and tussock moth, canker worms, ants and other creeping insects.

6 ozs., 25c; 1 lb., 60c; 5 lbs., \$2.75; 10 lbs., \$5.25; 25 lbs., \$11.00

TREE WOUND PAINT. Prevents decay after pruning. This penetrating, antiseptic paint is not affected by heat, cold or moisture. Does not peel, crack or get brittle. Stops tree bleeding.

1-qt. can, \$1.00; 1-gal. can, \$3.00

"NURSERY VOLCK" SPRAY. A high grade oil spray intended primarily for application on trees, shrubs and plants in foliage. Used for mealy bug, red spider, scale, white fly and other insects on roses, dahlias, mums, iris and other flowers, shrubs, shade trees, fruit trees, evergreens, vegetables, etc. Also, prevents mildew. Full directions on each can. Can be sent through the mails

1/2-pt. can, 35c; 1-pt. can, 55c; 1 qt., 80c;

1 gal., \$2.50; 5 gals., \$7.50; 28 gals., \$28.00

WAX, GRAFTING. 1/2 lb., 40c; 1 lb., 60c. (By mail add 7c per lb.)

***WEED KILLER.** A highly concentrated solution which dilutes one part to 49 parts of water. It kills every known variety of weed, with its roots and seeds as well. Just apply with ordinary sprinkling pot.

1 qt., 55c; 1 gal., \$1.75; 5 gals., \$6.75

Price on larger sizes on application.



DANDELIONS CAN BE DESTROYED



Does all the Work

Easily - Quickly - Permanently

KILLER KEMICAL kills dandelions, thistles, plantain, buckhorn and other common weeds. Does not sterilize the soil. Is not poisonous or inflammable. Does not stain walks or clothing. Does not corrode or rust metals.

KILLER KANE insures easy and economical application. No stooping or backbreaking. Place Kane on crown of dandelion or weed and press handle slightly. A small amount of Kemical is released and does all the work. Children as well as grown-ups can operate effectively.

KILLER KITS (Kane and 1/2 gal. Kemical)\$1.95

KILLER KEMICAL. 1/2 gal., \$1.25; 1 gal., \$2.00; 5 gals., \$7.95

Special prices for larger quantities. **KILLER KANE**\$1.00

JUNIOR OUTFIT. Includes 1 quart can of Killer Kemical with special nozzle attachment85c

COMPLETE KILLER KIT

Includes Kane and 1/2-Gallon Kemical

\$1.95



INSECTICIDES PREFIXED BY (*) CANNOT BE SENT BY MAIL.

LARGER CROP PROFITS—Thru Controlling Seed-Born Disease with



SEED DISINFECTANTS

Improved SEMESAN BEL

For Seed White Potatoes

Seed potato treatment will bring you more profit than ever before. New Improved Semesan Bel—the quick dip treatment—has cut treating costs to 1 1/2c to 3c per bushel of seed and gives equal or better control of seed-borne rhizoctonia and scab than the old soak treatments. It protects seed pieces against rotting, insuring maximum stands; gives more consistent increases in yield and consequently larger profits. New Improved Semesan Bel costs less in time and labor than the old treatments. It is easily and quickly applied. Just mix one pound of Improved Semesan Bel with 7 1/2 gallons of water, dip your seed potatoes, drain, and plant. One pound of New Improved Semesan Bel treats 60-80 bushels of seed potatoes.

Prices: 4 ozs., 50c; 1 lb., \$1.75; 5 lbs., \$8.00; 25 lbs., \$31.25; 100 lbs., \$120.00. Free pamphlet.

New Improved CERESAN

A NEW LOW COST GRAIN DISINFECTANT

Costs only 1 1/2 to 2 1/3 cents per bushel. Unusually effective in controlling bunt or stinking smut of wheat, covered smut and stripe of barley, and oat smuts. Frequently improves the stand and yield of grain 1 to 5 bushels per acre. Easily and quickly applied. Seed should be treated 24 hours before planting. Does not reduce drilling rate nor damage drill. One pound treats 32 bushels of wheat, oats or barley.

Prices: 1 lb., 75c; 5 lbs., \$3.00.

SEMESAN

For Flower and Vegetable Seeds

Prevent the many damaging diseases of flowers and vegetables that are carried on the seed, by disinfection of the seed with Semesan. It destroys the destructive diseases on the seed and protects them from the rots in the soil, which results in increased stands of more vigorous, healthy plants that yield larger, quality crops. Sprinkling of the seedling beds with Semesan solution effectively prevents damping-off. Recommended especially for seeds, bulbs, gladiolus corms, dahlia tubers, and rose bushes. Easily applied as a liquid or dust. One ounce treats 15 to 30 pounds of seed. Directions in every can.

Prices: 2 ozs., 50c; 1 lb., \$2.50; 5 lbs., \$11.75; 25 lbs., \$46.25. Free pamphlet.

New Improved SEMESAN, Jr.

For Seed Field and Sweet Corn

Three bushels more corn can reasonably be expected by any farmer who treats seed corn before planting, Illinois Experiment Station tests show. Field or sweet seed corn dusted with New Improved Semesan Jr., is protected from the destructive Diplodia Gibberella and Basiporium root rots carried by the seed, and from rotting in cold, wet soil, consequently better germination, stands and yields of improved quality are obtained. Treatment with New Improved Semesan, Jr. costs less than 3c per acre and pays a splendid profit on the cost. Easily and quickly applied as a dust at the rate of 2 ounces per bushel of seed.

Prices: 4 ozs., 50c; 1 lb., \$1.50; 5 lbs., \$7.00; 25 lbs., \$28.75. Free pamphlet.

SEMESAN or NU-GREEN

For Successful Prevention and Control of Brown Patch on Lawns and Golf Courses

Brown Patch may, overnight, mar a beautiful lawn or convert a smooth velvety golf green into an unwanted hazard. Regular applications of either Semesan or Nu-Green prevent or control the development of Brown Patch and assist a normal, healthy turf growth. Semesan is recommended where soil fertility is high. Nu-Green is advised where the soil fertility is lower. One pound of Semesan or Nu-Green in 50 gallons of water treats 1000 square feet of turf by sprinkling. Applied with a power sprayer, 50 gallons of Semesan cover from 2000 to 3000 square feet; 50 gallons of Nu-Green solution from 1500 to 2000 square feet.

Prices, Semesan: 2 ozs., 50c; 1 lb., \$2.50; 5 lbs., \$11.75; 25 lbs., \$46.25; 100 lbs., \$180.00. Nu-Green: 3 ozs., 50c; 1 lb., \$1.75; 5 lbs., \$8.00; 25 lbs., \$30.00; 100 lbs., \$115.00. Free pamphlet containing description of the symptoms of various types of diseases causing Brown Patch, also a program for their prevention and control.

DU BAY SEED DISINFECTANTS, like many agricultural chemicals, are poisonous in nature and owing to present postal regulations cannot be sent through the mails, but must be sent by express or freight. Treat all seeds before planting with Du Bay Disinfectants.

FERTILIZERS



The Complete
Balanced
PLANT FOOD

for Lawns, Flowers, Shrubs,
Trees and Vegetable Gardens



Growing things respond quickly when given this excellent plant food. You can expect better results when you use SACCO.

Clean, odorless, easy to use. Complete directions for applying in each bag.

1-lb. can	\$0.10
5-lb. bag .....	.40
10-lb. bag .....	.70
25-lb. bag	1.40
50-lb. bag	2.35
100-lb. bag	3.95



Lōma, the scientifically-prepared plant food, will give you results that are startling. Lawns velvety green; flowering plants sturdy, full-bloomed and tall; vegetables such as you have never had before. Lōma is rich in nitrogen. Agricultural experts will tell you that this is the most vital plant food. Lōma works quickly. In a week's time you can see the difference in your lawn.

1-lb. can	\$.10
5-lb. can .....	.50
10-lb. bag .....	.85
25-lb. bag	1.50
50-lb. bag	2.50
100-lb. bag	4.00

WEDO

Finest
Lawn
Fertilizer

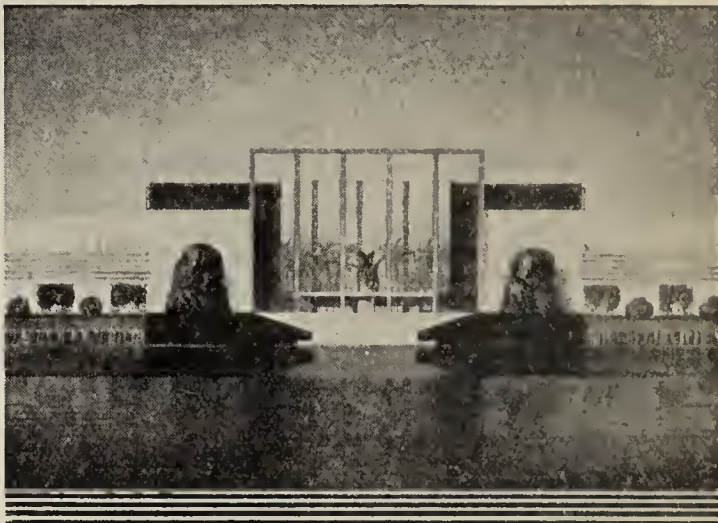
Costs
You Less



WEDO is a fertilizer made especially for grass. You are assured of finer results from its use. The cost?—more per pound because it is made from finer materials—but, less per area because less than one-half the amount is required—only 1½ lbs. per 100 sq. feet—7c per square. A trial will convince you.

Helps to control weeds!

10-lb. bag	\$0.80
25-lb. bag	1.65
100-lb. bag	4.75



Choice of the **FAIR!**

Those beautiful gardens at the horticultural exhibit of A Century of Progress Exposition were fed regularly with Vigoro. The selection of this complete plant food for exclusive use on these important gardens is a true indication of its value to successful gardening. Avail yourself of the help Vigoro can give you in making your garden more beautiful and attractive. It is clean, odorless and economical. Four pounds feeds 100 square feet of lawn and garden area.

5 lbs.	\$0.50
10 lbs. ....	.85
25 lbs.	1.50
50 lbs.	2.50
100 lbs.	4.00

Prices f. o. b.

A Product of Swift & Company

VIGORO
Specially prepared plant food

FERTILIZERS—Continued

Pulverized Sheep Manure

This is a pure natural manure and one of the most nutritious foods for plants. Its effects are immediate. It is very rich, safe and gives quick results. It will give excellent results on flower beds, lawns or in vegetable gardens, as it contains all the elements for promoting a quick, luxuriant growth, as well as adding body to the plant. Can be used either in dry form or dissolved to make a liquid manure. If applied dry, no raking off is required as it does not disfigure the grounds, nor does it contain seeds of foul weeds, nor offensive odor.

Directions: For lawns, apply broadcast at the rate of five to six hundred lbs. per acre in February, March or April in spring, or in September or October in the fall. For pot plants mix one quart of sheep manure to six parts of soil. For use in the vegetable garden apply either broadcast or in drills at the rate of fifteen hundred to two thousand pounds per acre and mix slightly with the soil. For liquid application use 1 lb. to 5 gallons of water.

Prices: 5 lbs., 30c; 10 lbs., 50c; 25 lbs., 90c; 50 lbs., \$1.50; 100 lbs.\$2.25

Pure Bone Meal

This pulverized ground bone is excellent for rose culture and lawns. It decomposes rapidly and is quickly effective. Should be applied at the rate of 10 lbs., per thousand square feet or 400 to 500 lbs. per acre. Analysis, ammonia, 2%; total phosphoric acid, 27%.

Prices: 1 lb., 10c; 5 lbs., 25c; 10 lbs., 50c; 25 lbs., \$1.00; 50 lbs., \$1.75; bag of 125 lbs.\$3.50

Cattle Manure, Shredded

A substitute for stable manure in gardens and greenhouses, as it supplies plant food, humus and organic matter; largely used for rose culture and for mulching. The quality we offer is selected manure taken from paved Stock Yards cattle pens, dried and sterilized by a high temperature direct heat process which kills weed seeds, fungous and disease germs. 100-lb. bags only.

Per bag of 100 lbs.\$2.25

Nitrate of Soda

As a top dressing use at the rate of 100 lbs. per acre between the rows when the plants are well established, on the following vegetables: cabbage, cauliflower, eggplant, lettuce, spinach, beets, celery and onions. For asparagus, a top dressing of 250 lbs. per acre when the young shoots are starting in the spring. For strawberries, apply between the rows at the rate of 100 lbs. per acre at the time of blossoming. For the home garden, apply a solution of one ounce to two gallons of water.

1 lb., 10c; 5 lbs., 30c; 10 lbs., 50c; 25 lbs., \$1.00; 50 lbs., \$1.75; 100 lbs.\$3.00.

Driconure

This product is an ideal plant food and soil conditioner—not merely a stimulant. It corrects over-fed, under-nourished, or worn out soil troubles. The ingredients consist of high-grade, sterile, odorless, dehydrated cow manure, combined with quality peat moss. A ready-to-use turf and garden dressing, which is made of the best materials. For new seeding, work in about one-third of a bag (20 lbs.) which is a light application for rich soils and double this quantity as a heavy application for poor soils, to each 150 sq. feet. As a top dressing on gardens and lawns, one bag to about 400 sq. ft. Spade in a trowelful around perennials, roses and shrubs. Easy to handle and easy to apply. Packed in bags weighing about 50 lbs.—3 to 3½ bushels in bulk. Per bag\$2.75

Muriate of Potash

Apply 100 to 150 lbs. per acre, usually with other fertilizers. This must be used with great care as it is very powerful.

1 lb., 10c; 5 lbs., 30c; 10 lbs., 55c; 50 lbs., 1.75; 100 lbs.\$3.25

Dried Blood Meal

A splendid fertilizer for roses, carnations, chrysanthemums, etc., as well as for pot plants. Can be mixed with the soil or applied in liquid form.

1 lb., 10c; 5 lbs., 40c; 25 lbs., \$1.50; 50 lbs., \$2.50; 100 lbs.\$4.25

16% Acid Phosphate - Super P phosphate

Some soils contain a large percentage of Nitrogen and some Potash, but still are deficient in Phosphoric Acid. This must be supplied for the purpose of producing a balanced combination of fertilizer elements, by the application of 16% Acid Phosphate, which produces a beneficial effect by supplying the proper proportion of Phosphoric Acid. Apply from 200 to 400 lbs. per acre. Analysis: Available phos. acid, 16%; insoluble, 1%.

5 lbs., 25c; 10 lbs., 40c; 25 lbs., 80c; 50 lbs., \$1.35; per bag of 125 lbs.\$2.25

American Peat Soil Sponge

(The Water Reservoir)

Very often too much emphasis has been placed on the analysis of the soil and too little on its moisture retaining qualities. This is a mistake, as moisture is 95% of plant growth and absorbent peat is the medium to supply this want.

Peat Moss is usually used straight. Soil Sponge should never be used straight, but always mixed with other soils. Soil Sponge is not a fertilizer, has low analysis, but when mixed with soil, remarkable and lasting results are obtained, because Soil Sponge will absorb and retain large amounts of moisture, which is so essential to plant growth, because these purely organic fibers act as a breeding ground for the nitrogen fixing bacteria, and because Soil Sponge does not decompose for years. Soil Sponge will develop beautiful lawns, gardens, shrubs, flowers and trees.

5 lbs., 25c; 10 lbs., 40c; 25 lbs., 75c; 50 lbs., \$1.25; 100 lbs., \$1.75; 500 lbs., \$8.00; 1000 lbs., \$14.00; 2000 lbs.\$26.00

IMPORTED GRANULATED

Peat Moss or Bulb Fibre

Ferns, palms and other potted foliage plants that are placed in jardinier or window boxes, will keep wonderfully well, if the space between the pots is filled in with moistened Granulated Peat Moss to the height of the shoulder of the plant pots. Flower pots are porous, and the capillary attraction of the roots draws the moisture from the moss through the pots; furthermore the air is allowed free access and is always somewhat damp—a natural condition for most pot plants.

This Granulated Peat Moss or Mull is especially selected for horticultural purposes. It is finely granulated, of little weight, and is entirely free from foreign matter. It is packed in compressed bales, burlapped on all sides, sticked and wire strapped. When loosened the contents will cover 240 sq. ft., 1 inch deep. It is not sold by weight, because the weight of the bale is dependent on its moisture content, which varies according to atmospheric conditions.

A few of the many purposes for which it is used: fertilizer carrier, mulching, cold frames, lawns, improving soils, propagating, cuttings, landscape work, benches (greenhouse), golf courses, packing, storing bulbs, potting, layering, seed beds, etc. Send for booklet giving detailed information.

Two-bushel garden package, \$1.50; large bale, about 20 bushels, \$3.50; bale, about 15 bushels.\$3.00

Adco

For making Artificial Manure—Dry leaves, mixed with Adco and kept moist, turn into excellent manure. So do flower stalks, cuttings, pea vines, and almost any other kind of non-woody vegetable waste.

Adco is a powder, mixed with vegetable matter and kept moist, turns the latter into Real Manure, but without the odor, flies, etc. The process is perfectly simple and not at all laborious. The method is being generally adopted by gardeners, who know that manure is a necessity to the soil and can no longer be obtained from stables. Farmers can use straw, corn stalks, etc., and need no longer maintain live stock.

Price, Adco, in 25-lb. bags, each \$2.00. (Enough for about 12 wheelbarrow loads of garden waste, making one-half ton of manure).

Adco, in 100-lb. bags (4-25s), each \$7.75. (Enough for a heap 8 ft. x 8 ft. x 6 ft., making about two tons of manure). Adco, in special 150-lb. bags, each \$10.50. (Enough for a heap 10 ft. x 10 ft. x 6 ft., making about three tons of manure).

Each shipment is accompanied by simple directions, which makes any mistake impossible.

Sulphate of Ammonia

Contains approximately 25 per cent of ammonia and comes in fine crystals which are very nice to apply broadcast. Owing to its firmness and keeping qualities it is preferred by some gardeners and fruit growers to Nitrate of Soda. Owing to the fact that it carries 5 per cent more ammonia to the weight than Nitrate of Soda, the user should apply four pounds of Sulphate of Ammonia where he uses five pounds of Nitrate of Soda.

1 lb., 10c; 5 lbs., 25c; 10 lbs., 45c; 25 lbs., 95c; 50 lbs., \$1.70; 100 lbs.,\$2.90

FERTILIZERS—Continued**Plantabbs**

30 tablets, 25c; 75 tablets, 50c; 200 tablets, \$1.00; 1,000 tablets\$3.50

Plantabbs are small, white, odorless, highly concentrated plant food, ideal for house plants, where smelly fertilizer cannot be used but equally good for all garden planting.

Plantabbs are economical, there is no waste; they are clean, odorless, easy to apply, give uniform feeding and by dissolving quickly produce immediate fertilization.

Pulverized Limestone

A Lawn and Garden Conditioner

The agricultural value of lime is well known and it is an economic neutralizer for soil acidity, also for binding sandy soils and loosening clay soils.

For renewing old lawns, use at the rate of 100 pounds for each four hundred square feet.

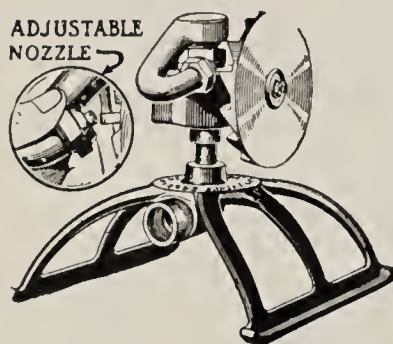
For new lawns give a generous coating at the rate of 1,000 to 2,000 pounds per acre for sandy soils and 2,000 to 3,000 pounds per acre for clay soils.

Lime will be found very beneficial in the growing of all garden crops, fruit trees and flowers, also for leguminous crops, such as alfalfa, sweet clover, red clover, soy beans, cow peas, vetches, etc.

Per bag of 80 lbs., \$1.00; 5 bags, \$4.00; 10 bags.....\$7.00

LAWN SPRINKLERS

ADJUSTABLE
NOZZLE



DOUBLE ROTARY SPRINKLER. Next best to rain. Operates on the rotating principle, resulting in a sprinkle like a gentle shower. Will sprinkle a circular area up to 80 feet in diameter—more than 5,000 square feet. A sturdy, durable machine—well built of best materials and entirely self-operating. For golf clubs, parks, cemeteries and private estates.

Each\$12.50

DOUBLE ROTARY JUNIOR SPRINKLER. Possesses all the features home owners want in a sprinkler. Can be used as a rotating sprinkler, a stationary sprinkler or by adjusting the nozzle, a stationary spray. Adapted to lawns and gardens of any size.

Each\$7.50



3-WAY DAYTON SPRINKLER. Entirely new. Three different sprinkling heads combined in one unit—whirlers with circular spray from a few feet up to 48 feet.—intensified spray up to 28 feet.—half spray for curb strips and other narrow or oblong spaces.

Just turn top of sprinkler so the head you want to use clicks into proper position. The other two heads automatically shut off. Price, complete\$2.75

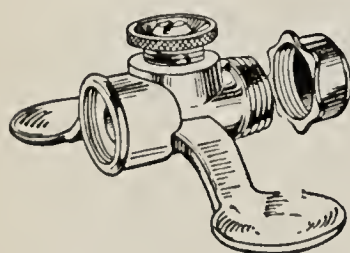
RAIN KING. A real innovation in the sprinkler line, and radically different from any other sprinkler made. Circular or stationary spray—fine or coarse—fast or slow—large lawn, small lawn—trees, shrubs, flower beds—takes care of them all.

Small, compact, easily handled. No cumbersome contrivance always in the way. Simple adjustments—made easily. Set instantly as a revolving or stationary sprinkler.

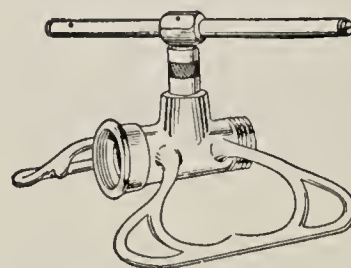


Nozzles adjust immediately to a fine spray or coarse spray, with any pressure, and runs fast or slow, as wanted. Never clogs up and stops—a common fault with other sprinklers, both revolving and stationary. Price.....\$2.25

MARKET GROWERS' SPRINKLER HEADS. Every market gardener, florist and others who use a hose for watering hotbeds, cold frames, gardens and lawns should have one of these sprinklers. Simply attach to hose in place of nozzle. Each\$1.35



V. B. No. 25 PORTABLE LAWN SPRINKLER SET. Works on high or low pressure. Adjustable brass head. Malleable stand finished in red enamel. Set sprinklers about 20 feet apart. Packed three to a set. One sprinkler equipped with a brass shut-off cap. Per Set of Three.....\$1.50



V. B. No. 35 TWIN SPRINKLER SET. Simple in construction and does not get out of order. With the twin set an area of 50 x 20 feet may be evenly covered. These revolving sprinklers operate well on very low as well as on high pressure. Per Set\$1.85

GARDEN HOSE and APPLIANCES

SUPERIOR RUBBER HOSE. An extra high-grade, long wearing rubber hose. We can supply in any length. Prices include couplings. 1/2-inch, per ft., 9c; 3/4-inch, per ft., 10c; 1-inch, per ft.11c

STAMPED CLINCHING HOSE COUPLING. Does not require extra bands, bolts or wires. Slip in the hose and hammer down 1/2-inch or 3/4-inch. Each.....20c

STAMPED CLINCHING HOSE MENDER. Slip in the hose and hammer down. It leaves the hose as smooth, strong and tight as a new hose. 1/2-inch or 3/4-inch. Each.....10c

HOSE WASHERS. Rubber. Per doz.5c

We have prepared a leaflet—

HOW TO MAKE AND MAINTAIN A LAWN

advising as to the fertilizing, seeding, and general care of the lawn.
Copy free on request.

SPRAYERS AND DUSTERS

Compressed Air and Knapsack



Hudson Perfection Sprayer

For general high pressure purposes, the Perfection is the very best. Easily operated and economical to use for white-washing, disinfecting, deodorizing, cold water painting, etc. Best materials, best construction and best quality throughout.

Capacity, $4\frac{1}{4}$ gallons. Pump is seamless brass tubing. Fastens to tank by heavy threaded malleable cap which screws onto brass tank collar.

Nozzle is designed for high pressure work. Handles any solution and works perfectly under all pressures.

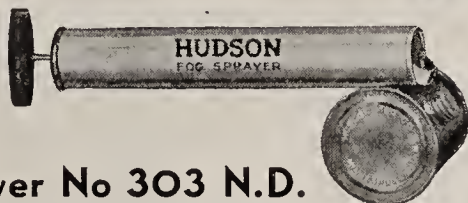
Regularly equipped with 2-foot brass extension rod as shown. Permits the operator to quickly and easily reach low-lying plants, under surfaces of leaves, all parts of trees, shrubs or vines, or the nooks and corners of the poultry house, dairy barn or hog pen, without tiresome bending or climbing. Fitted with standard $\frac{1}{4}$ -inch iron pipe threads so that a longer rod can be used, if desired.

No. 110-B. Copper tank. Each\$8.75
No. 110-G. Galvanized tank. Each\$6.00

Hudson Junior Sprayer

The Junior Sprayer is made for the man who needs a medium size high pressure Compressed Air Sprayer. It is particularly adapted for the back-yard garden, small truck farm or for disinfecting. It will do any work the larger models can, for it differs from them only in capacity. It is substantially made and will give entire satisfaction. Capacity, approximately $2\frac{1}{2}$ gallons.

No. 140-B. Junior, copper tank. Each\$6.00
No. 140-G. Junior, galvanized tank. Each\$4.00



Fog Sprayer No 303 N.D.

Produces extraordinarily fine mist-like spray. Well constructed, tested and inspected. Capacity, 12 oz.

Each30c



Handy Sprayer No. 440

Carefully made of good material. Tank lock-seamed and thoroughly soldered. Capacity, about 1 quart.

Each30c

Vapor Sprayer

An excellent small sprayer for use in the garden or for household use. Capacity, about $\frac{3}{4}$ pint. Same construction as Hand Sprayer listed above.

Each25c



Hudson Sterling Sprayer

The Sterling offers all the essentials of a high pressure compressed air sprayer at a minimum cost. Made of high quality material throughout. Adapted for all classes of work. Handles white-wash, cold water paints, insecticides and fungicides very efficiently.

Capacity approximately $3\frac{3}{4}$ gallons. Tank made of prime galvanized sheet. Pump, seamless brass tubing. Clamp top permits instant locking or releasing by half turn of malleable pump handle. Nozzle all brass with curved brass extension.

N. 115-B. Copper tank. Each\$5.00
N.o 115-G. Galvanized tank. Each\$3.25

Hudson Thrifty Sprayer

The Thrifty Sprayer is a small capacity, high pressure compressed air sprayer for the home-owner, suburbanite, back-yard gardener, or poultry fancier, at a moderate cost. Sturdily built, of first quality material throughout.

Tank is made of first quality galvanized sheet tested under actual working conditions at the factory. Capacity, approximately $2\frac{1}{4}$ gallons.

Pump is seamless brass, attached to tank by malleable screw cap. Nozzle is all brass, automatic in operation. Fitted with 12-inch curved brass extension rod and discs for spray or solid stream.

No. 120-B. Copper tank. Each\$4.50
No. 120-G. Galvanized tank. Each\$3.00

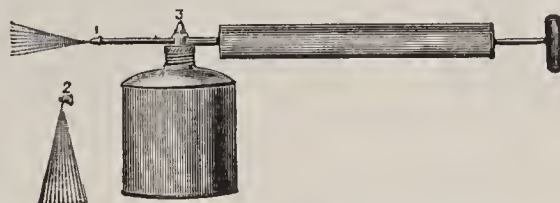


Jim Dandy Sprayer

Adapted for spraying garden and farm vegetables of every description: shrubbery, grape vines, currant bushes, fruit trees, etc. Will spray rapidly disinfectants in schools, public buildings, poultry houses and stables; fly spray on cattle; whitewash, Carbola, cold water paints, etc.

The reservoir is made of heavy galvanized iron, capacity, two quarts; all other parts are entirely of brass, including ball check valves and nozzle. The Golden Spray Nozzle furnished is adjustable for large, fine mist spray or long distance coarse spray as desired.

Each\$2.95



"Jake" Compressed Air Sprayer

These sprayers have stood the test for years. Equipped with Universal Nozzle that sprays up and down and to either side, in addition to the direct spray nozzle.

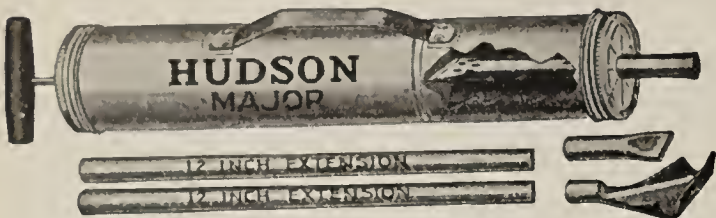
1. Straight nozzle. 2. Universal nozzle attached. 3. Shows nozzle as attached to holder for safe keeping when not in use.

No. 50-G. Tin pump and galvanized container. Each \$1.00

No. 75-Giant. Gives a powerful spray. Easy to operate. Has a galvanized container. Capacity, $\frac{1}{2}$ gal. Each\$1.90

No. 50-B. Brass pump and container. Each\$1.50

SPRAYERS AND DUSTERS—Continued



Major Duster

For all powder insecticides. Has large powder reservoir. Strainer shaped to prevent clogging and give uniform volume of discharge. Over-all length is 14 inches.

Each\$1.00



Model BX Feeny Dust Gun

The Feeny Dust Gun is a mechanically perfect apparatus which emits powder in clouds of right consistency from any position and in any direction, downward, upward or horizontal. Entirely different principles of mechanism have been brought into play than have been used heretofore on such outfits.

MODEL BX. Like cut, 28 inches long. Each90c
MODEL D. Two-quart capacity. Each\$2.60



Cadet Duster

Adapted for use with all insect powders. A favorite with the housewife in applying roach, ant and various bug powders. Powder reservoir, 1¾ inches diameter, 5 inches long.

Each40c



Signal Duster

Convenient and economical to use because of its size and ease of operation. Powder reservoir, 1½ inches diameter, 3 inches long.

Each30c

A good vegetable garden will materially reduce the weekly food bill and the **QUALITY** of **FRESH VEGETABLES** from **YOUR OWN GARDEN** can never be equalled from any other source. See offer on back cover.

PARAGON SPRAYERS

Paragon Sprayers are of superior quality in material and workmanship; they have the following exclusive features:
Large reserve brass air chamber which makes it twice as easy to operate and maintain a high working pressure, insuring a uniform fine mist spray.
The pump is not submerged in the liquid. Have a large circular strainer containing 16 square inches of straining surface automatically cleaned.
Ample equipment, much more than sent out with the ordinary sprayer.
When all these features are considered it is cheaper in price, will give better satisfaction and last a lifetime.



NO. 1 PARAGON SPRAYER



NO. 3 PARAGON SPRAYER



NO. 4 PARAGON SPRAYER

No. "0". Capacity, 3½ gallons. Equipment, 4 ft. of special spray hose, 3 ft. spray pipe, 3 spray nozzles\$10.95
No. "1". Capacity, 6 gallons. Equipment, 5 ft. special spray hose, 5 ft. spray pipe, 3 nozzles. Net price.....\$15.35
No. "3". Capacity, 12 gallons. Equipment, 10 ft. special spray hose, 7½ ft. spray pipe, 3 spray nozzles. Net price, complete, \$19.75. Without truck\$16.25
No. "4". Capacity, 28 gallons. Equipment, 20 ft. special spray hose, 10 ft. spray pipe, 3 spray nozzles. Net price complete with barrel \$35.00. Not mounted on wheels. price\$26.50

No. "5". Capacity, 50 gallons. Equipment, 25 ft. special spray hose, 10 ft. spray pipe, 3 spray nozzles. This sprayer has an all-brass pump and large air chamber mounted in a strong barrel but not on wheels. It is positively the very best hand-power sprayer made for extensive tree-spraying. Net price\$40.00

Bamboo Brass Lined Spray Poles

10 ft. lengths. Each\$4.50

Recleaned Bird Seeds, Pet Supplies, Bird Houses, Etc.



It is very important that you make the proper selection of foods for your birds; pure, fresh, clean food is necessary at all times. Our bird seeds are of the highest quality, fresh and recleaned. Your pets will thrive if you get your supplies in this line from us.

- BIRD PEP. Keeps canary birds in prime condition and prevents loss of song. Easily attached to cage. Pkg.10c
 - CANARY SEED. Recleaned and of splendid quality. Postage extra. Per lb., 15c; 2 lbs.,25c
 - CANARY SEED, MIXED. A mixture of the finest quality and in proper proportions. Postage extra. Per lb., 15c; 2 lbs., 25c
 - CUTTLE FISH BONE. Good for digestion and general health. Postage extra. Each 5c; per ¼ lb., 20c; per lb.,.....60c
 - HEMP SEED. Birds are very fond of this seed; it is rich and should be fed with discretion. Postage extra. Per lb., 15c; 2 lbs.,25c
 - LETTUCE SEED. A slight sprinkle of this is much relished by canaries. Postage extra. Per lb.,35c
 - MAW SEED. Calculated to improve the song of canaries, etc. Postage extra. ¼ lb., 10c; lb.,25c
 - MILLET SEED. Nutritious and appetizing. Postage extra. Lb., 15c; 2 lbs.,25c
 - RAPE SEED. Will keep birds in excellent condition; feed with canary seed. Postage extra. Lb., 15c; 2 lbs.,25c
 - SUNFLOWER SEED. We are large handlers of this important food for parrots. We turn out only a very choice article. Postage extra. Per lb., 15c; 2 lbs.,25c
- PRICES ON BIRD SEED IN LARGER QUANTITIES
QUOTED ON APPLICATION.

Bird Sundries

- CANARY NESTS. A wire basket well made. Each10c
- BIRD NESTING. Per pkg.10c
- BIRD BATHS. Made of opal glass. Each15c
- SEED CUPS. Made of opal glass. Each10c
- DRINKING CUPS. Made of opal glass. Each10c
- EGG FOOD AND TONIC CUPS. Each5c

Fish Food and Supplies

- FISH FOOD. Especially put up for fish in aquariums and globes and should be fed regularly. We can supply it in wafer or natural form. Per box, 10c; by mail15c
- NATURAL FISH FOOD. In bulk. ¼ lb., 20c; 1 lb., 60c.
- BURNETT'S GLANDEX. A new glandular food for Tropical Fish. A complete food that has every element necessary to produce normal growth and bring out the natural colors. Eliminates the necessity for live food. ¾-oz. tins, each, 20c.
- GOLDFISH BOWLS AND AQUARIUMS. An extensive assortment of styles and sizes. Each50c to \$5.25
- GOLDFISH BOWL AND AQUARIUM ORNAMENTS. Attractive designs. Postage extra. Each15c to 75c
- SEA SHELLS. Postage extra. Per lb.,15c
- PEARL CHIPS. Postage extra. Per lb., 10c; 3 lbs.,25c
- COLORLED CHIPS. Beautifully colored, many shades. Postage extra. Per lb., 15c; 2 lbs.,25c

BIRD GRAVEL. Silver, fine. (By mail add 7c per pkg.) Pkg...10c

CHENOWETH'S CANARY FOOD. The bird's balanced ration. Revives the desire to be lively and sing more lustily. Should be fed two or three times a week to keep birds in good health, song and plumage. Per pkg. 25c. By mail30c

BURNETT'S FOOD. Will give immediate relief from the effects of moulting, eradicates all impurities from the blood, and restores to the songster, a strong and clear voice. Per bottle, 20c; By mail, 25c

BURNETT'S LIGHTNING SONG RESTORER. Makes birds bright and active and is especially recommended in feeding over-fed or run-down birds. Per bottle, 20c. By mail,25c

BURNETT'S LOUSE POWDER. An effective remedy to be dusted on all kinds of birds. Per can, 25c. By mail,30c

BURNETT'S LIQUID TONIC. For birds. Per bottle....25c

BURNETT'S BIRD WASH. Per bottle.....25c

HEALTH BELLS. A conditioner and tonic consisting of the best ingredients. A small bell attached to bottom rings when bird eats. Each, 10c; 3 for.....25c



SPRATT'S CAT FOOD. Used at the leading catteries and the ever-increasing demand is the best proof of its value. Per box30c

Bird Houses

These Wood Craft Houses are well constructed of first-class seasoned wood, covered with a tinted stucco which will last a lifetime. They are built for the true purpose of attracting the birds and will resist weather conditions.

Help protect and multiply our native birds. They will repay in song and chirp, add attractiveness and enliven grounds, besides destroying countless worms, bugs, beetles and grasshoppers which devour vegetation.

- Wren Hutlet, Each\$1.75
- Bluebird Hut. Each 2.50
- Robin Home, small, open on three sides. Each 2.50
- Robin Home, medium, open on four sides 3.50
- Robin Home, large, open on four sides. Each..... 4.75
- English Sparrow Traps 8.50
- Winter Feederies, three sizes, each....\$2.50; \$3.50 and 4.75
- Martin Houses, 3 rooms. Each 6.50
- Martin Houses, 7 rooms. Each 13.00
- WILD BIRD FEED. A mixture of grain and seed for wild birds. 5 lbs., 40c; 10 lbs., 70c; 25 lbs., \$1.50; 100 lbs. \$5.00

Our store is conveniently located on Fourth Street near Sycamore, just opposite the Telephone building. When you pay your telephone bill—pay us a visit—just across the street.



MILLER'S DOG FOODS

Nationally Famous
"Battle Creek Health Foods
for Dogs"

The use of Miller's Dog Foods solves complex feeding problems. Keep your dog healthy and happy by feeding a balanced diet. Satisfaction is guaranteed or money refunded.

Miller's Ration

A granular cereal and meat food that can be fed to all dogs of all ages. Ration is a wonderful base feeding, fed either alone or with other foods.
1 lb., 10c; 10 lbs., 90c; 25 lbs., \$2.00; 100 lbs., \$6.00.

Miller's Biscuit

Crisp appetizing biscuits composed of cereals, meats, cod-liver oil and other ingredients. Provide exercise for the teeth and supply rich nourishment.
2 lbs., 25c; 5 lbs., 60c; 10 lbs., \$1.10; 25 lbs., \$2.50; 100 lbs., \$9.00.

Miller's Kibbled Biscuits and Puppy Meal

Kibbles for grown dogs and Puppy Meal for pups insures properly balanced diet. Can be fed alone or mixed with other things. Dogs love their fine flavor.
2 lbs., 25c; 5 lbs., 60c; 10 lbs., \$1.15; 25 lbs., \$2.75; 100 lbs., \$9.50.

Miller's Vitamil

A combination of minerals and vitamin bearing foods. Vitamil is a conditioner that benefits the appetite, coat and general health. Fed in small amounts mixed with regular feed.
4-oz. can, 50c; 8-oz. can, 75c; 16-oz. can.....\$1.25

Miller's Dog Soap

A pleasantly scented mild soap that is guaranteed to kill fleas and mites. This soap leaves your dog with a pleasant odor instead of a medicine smell.

Per bar25c

Miller's Leader Dog Biscuits and Miller's Leader Kibbled Biscuits

5 lbs., 50c; 10 lbs., 90c; 25 lbs., \$2.15; 100 lbs., \$7.75.

Sportsman Canned Dog Food

An ideal balanced meat cereal food for dogs or cats. Thoroughly cooked and ready to feed either alone or when mixed with dog cakes. Convenient to store or carry and a handy food to have around the house for emergencies. Packed in cans containing 16 ozs. Per can 10c; Per doz. cans, \$1.10; Case of 48 cans\$1.25

FLEISCHMANN'S IRRADIATED DRY YEAST. For your Pets! Rich in vitamins B, G, and D. Increases pep and general vitality, stimulates the appetite and aids digestion. Not a medicine but a natural food supplement, which should be given to all animals regularly. Produces a finer and heavier coat—builds stronger bones and muscles—prevents and cures rickets—develops sturdier puppies. Just mix right in with their other food. 8-oz. can, 50c; 1-lb. can, 85c.

Spratt's Dog Foods

SPRATT'S DOG CAKES. In large cake form for older dogs. 1 lb., 15c; 2 lbs., 25c; 10 lbs., \$1.20; 25 lbs., \$2.90; 100 lbs.,\$11.00

SPRATT'S PUPPY BISCUITS. For young dogs and small and medium breeds. 1 lb., 15c; 2 lbs., 25c; 10 lbs., \$1.25; 25 lbs., \$3.00; 100 lbs.,\$11.50

SPRATT'S OVALS. The pocket dog biscuit; for all breeds. 1 lb., 15c; 2 lbs., 25c; 10 lbs., \$1.20; 25 lbs., \$2.90; 100 lbs.,\$11.00

SPRATT'S FIBO. A granulated food with yolk of egg for shy feeders. 1 lb., 15c; 10 lbs., \$1.35; 25 lbs., \$3.25; 100 lbs.,\$12.50

SPRATT'S WEETMEET. A granulated food for puppies from weening and for brood bitches, bulldogs and dainty feeders. 1 lb., 15c; 2 lbs., 25c; 10 lbs., \$1.25; 25 lbs., \$3.00; 100 lbs.,\$11.50

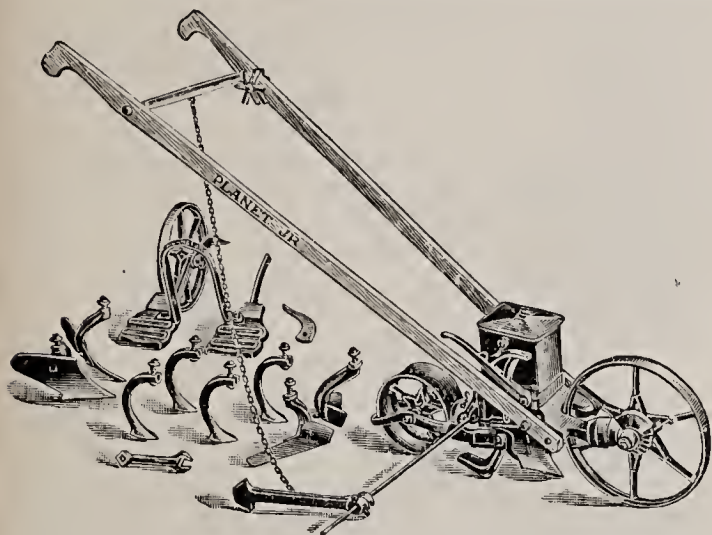
PULVEX FLEA POWDER. Not only kills all the fleas but also keeps them off for days. A double feature, possible only because of the pulvex ingredient. Per 2-oz. can, 50c; 12-oz. can,\$1.25

ZURRUZ LIQUID FLEA SOAP. Absolutely pure. Per 10-oz. can, 35c. By mail45c

Our ANNUAL FALL BULB CATALOG in colors will be ready for mailing about the fifteenth of September, describing a complete assortment of Tulips, Hyacinths, Narcissus and smaller bulbs for the rock garden or for naturalizing. If you desire this catalog, send us your name and address.

PLANET JR. GARDEN TOOLS

Complete Illustrated Catalog on Request



Planet Jr. No. 25

No. 25. Combined Hill and Drill Seeder, Double and Single Wheel Hoe, Cultivator and Plow. Has one pair of 6-inch hoes, four cultivator teeth, one pair plows, two leaf guards. Holds $2\frac{1}{2}$ quarts seed. Our net price\$21.00

No. 4. Combined Hill and Drill Seeder, Single Wheel Hoe, Cultivator and Plow. Has one pair 6-inch hoes, three cultivator teeth, one garden plow, one leaf guard. Holds $2\frac{1}{2}$ quarts seed. Our net price...\$16.75

No. 4D. As a seeder without tools. Our net price.\$13.50

Planet Jr. Wheel Hoes

No. 12. Double Wheel Hoe. Has one pair of 6-inch hoes, four cultivator teeth, one pair plows, two leaf guards. Our net price, complete.....\$10.25

No. 13. Double Wheel Hoe, 2 weeding hoes, only. Our net price\$7.60

No. 16. Single Wheel Hoe. Has one pair of 6-inch hoes, three cultivator teeth, one large garden plow, one 7-inch rake, one 4-inch rake, one leaf guard. Our price\$8.50



No. 17. Single Wheel Hoe. Has one pair 6-inch hoes, three cultivator teeth, one large garden plow. Our net price\$7.35

No. 19. Single Wheel Hoe, Cultivator and Plow. Has one 2-inch cultivator tooth, one 10-inch sweep, one plow. Our net price\$4.75

Lawn Edge Trimmer

Practically everyone who has use for a lawn mower has use for an Edger.

To keep grounds looking neat and attractive, the grass bordering all walks must be frequently edged and the No. 2 machine will do this work quickly and with little effort, no matter if the walks are straight or curved, or if they are of cement, stone or brick. Price, each, \$1.50. Postage extra.

HORTICULTURAL TOOLS AND SUPPLIES

BASKETS, Wire Hanging. 12-in., 35c; 16-in.....50c

Norcross Cultivators



The prongs are square spring steel bent cornerwise with forged shovels at the ends. The socket frame and clamping bar are made of toughest malleable. Handle, best grade of white ash.

No. 11. 3-prong, 9-in. hardwood handle. Each.....50c

No. 33. 3-prong, 48-in. maple handle. Each.....85c

DIBBLES, Iron with wood handle. For transplanting plants and planting bulbs75c

FORKS, Hand Weeding. Small size50c

FORKS, Spading\$1.50

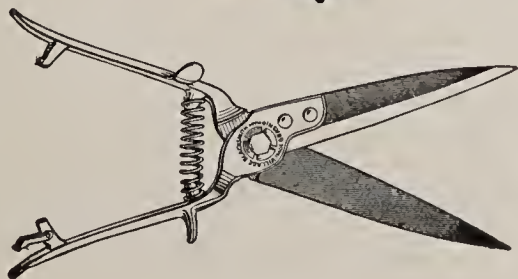
FRUIT PICKER. Made of galvanized steel wire; attaches to pole of any length. Price without pole.....75c

GLASS CLOTH. A substitute for glass. Per yard, 25c; 10 yds., \$2.20; 100 yds.\$18.00

GRASS HOOKS. Highly polished tempered steel. Varnished maple handle secured by three large rivets. Each....60c



GRASNIPS.
No. 3. High carbon steel blades. Each65c



"Just the Garden Glove I've been Looking for!"



That's what you'll say, too, when you put on this new and different glove which has been specially designed for garden wear. Its unique qualities have made it nationally popular with both men and women.

All-Leather
SOFT AS KID

DIRT-PROOF
Extra Pliable

Made from select imported leather processed to render it extra soft and pliable as well as durable. Gives complete protection from dirt, bruises, scratches and stains—yet allows almost bare-hand freedom with maximum comfort.

Economical, too, for they will outwear six pairs of ordinary fabric gloves and are useful the year round for Garden, Housework, Painting, Yard, Furnace, Garage, etc. Keep the hands in "party" condition.



National
Eezy Wear
Garden Gloves

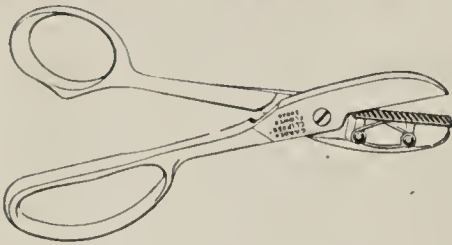
WASHABLE!

Sizes for women: "Small," "Medium," "Large"—for men: "Medium" and "Large." Price, 75 cents a pair (2 pairs, \$1.40), postpaid.

HORTICULTURAL TOOLS AND SUNDRIES—Continued

“Acme” Flower Shear for the Garden

This improved flower shear cuts and holds flowers after cutting. Use one hand in cutting and the shear holds the flower. It's a time saver—particularly advantageous in cutting roses. Has nickel plated blades and green enamel handles. An indispensable garden tool. Each....75c



DOO-KLIP GRASS SHEAR. Prevents blisters, wrist tire and skinned knuckles. Arm and hand always in a natural position. Blades of case-hardened, rust-resisting steel. No adjustments to make. Each, ..\$1.50

DOO-KLIP LONG HANDLE GRASS SHEAR. User stands erect at all times. Only one handle—no extra levers to operate. Each\$2.50



Tree Pruners

Well constructed. Limbs three-quarters of an inch in diameter may be cut off with ease.
8 ft. Price\$1.75
10 ft. Price\$2.00

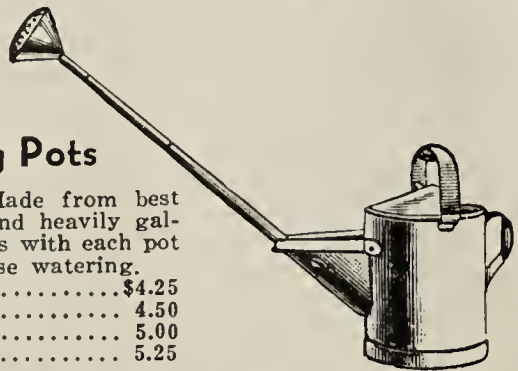


- PRUNING SHEARS 85c, \$1.25, \$1.50, \$1.75, \$2.00
- LONG HANDLE PRUNING SHEARS....\$1.75 and \$2.75
- SPADES\$1.25
- CANE STAKES, JAPANESE BAMBOO, dyed green.
3 ft.10c doz.; \$0.60 per 100
4 ft.15c doz.; .75 per 100
- CANE STAKES, JAPANESE BAMBOO, natural color.
Strong, light, durable, for supporting plants.
6 ft.\$1.75 per 100
8 ft.2.00 per 100
- DAHLIA STAKES. Wooden, painted green, tapering at end.
6 ft. long, 1/2-inch thick8c each; \$7.00 per 100

Watering Pots

Long Spout. Made from best quality of iron and heavily galvanized. Two roses with each pot for fine and coarse watering.

- 4-qt.\$4.25
- 6-qt.4.50
- 8-qt.5.00
- 10-qt.5.25



MOISTURE RETAINING
GROWELL
TRADE MARK
PLANT & FLOWER POT

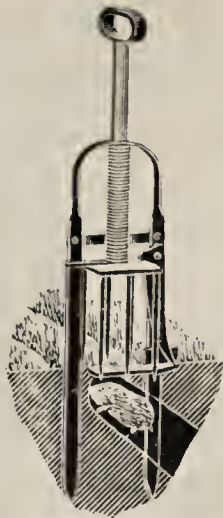
Especially designed for use where transplanting is necessary and where it is desirable to avoid the usual set-back due to transplanting. Both pot and plant transplanted to field or beds without disturbing roots. Saves from 10 days to 2 weeks growing time. Increases profits. Used with great success by many growers.

PRICES

No.	Top Dia.	Bottom Dia.	Height	12 Pots	50 Pots	100 Pots	1000 Pots
2	2 3/4	1 1/2	3	\$0.40	\$1.50	\$2.75	\$16.00
4	4 1/8	2 3/8	4	.60	2.00	3.75	21.75
5	5 1/4	3	5	.70	2.50	4.75	35.00
6	6 3/8	3 3/4	6 1/4	.85	3.00	5.75	40.00

HOES. Onion, with two prongs. Each.....75c
HOES. Standard Socket Garden, Each85c and \$1.25

PENNSYLVANIA LAWN CLEANER. Flexible rake bars, with steel springs and teeth, that rotate just like a lawn mower cylinder. Cleans your lawn more thoroughly and quicker than four men with hand rakes. The raking surface is 24 inches. Well constructed.\$35.00



Rittenhouse Mole Trap

The simplest, safest and surest mole trap ever invented. No danger of its going off unless the trigger is touched. Made of all steel and tinned. The spears are spring steel, therefore do not have to be as long as soft steel Price....\$0.95

MOSS, GREEN SHEET. For hanging baskets, etc. Per bale, 35c; large bundle (5 bales)\$1.50



An “Individual Hothouse”
For Every Plant.

BIGGER CROPS—
THREE WEEKS EARLIER!

GERMACO HOTCAPS guard plants against frost, wind, rain, insects, etc., by completely covering them.

They maintain a perfect mulch around each plant. Crops give a 10 to 25% greater yield and mature 2 to 3 weeks earlier—for higher prices.

HOTCAPS are patented wax paper cones—placed over plants or seeds at time of planting. Inexpensive, easy to use. One man can set over 2,500 per day.

PRICES: 1000 for \$10.00; 250-package with setter and tamper \$3.65; 100-package with setter and tamper, \$2.40; steel setter and tamper, \$2.25; garden setter (heavy paper), 50c. Postage extra.



Germaco

Hotkaps



“Best-Yet” Plant Support

	Painted green. Adjustable.	Each	Per Doz.
No. 234, 2-ft., loop 6 1/2 inches	.....\$0.15		\$1.25
No. 235, 3-ft., loop 10 1/2 inches	......20		2.00
No. 236, 3-ft., loop 14 1/2 inches	......25		2.50

Timesaver Sweet Pea or Vine Trellis

Dimensions, 5 ft. square. Frame of galvanized steel.
Each\$2.25

Labels

Tree Pot	Labels	3 1/2-inch copper wired	Per 100	Per 1,000
Garden	“	3 1/2-inch	.20	1.75
	“	4 “	.25	2.50
	“	5 “	.30	2.75
	“	6 “	.35	3.00
Garden	“	8 “	.75	6.75
	“	10 “	.90	8.00
			Per Doz.	Per 100

- PLANT LABELS, Waterproof, white celluloid.
No. 1, 3x1 1/2 inch.\$0.50 \$3.00
- PLANT LABELS, Weatherproof, green celluloid. No. 31, 3 1/2 inch.45 2.50
- ROCK GARDEN LABELS, Weatherproof, green celluloid. No. 51, 4x5 1/4 inch50 3.00
- GARDEN LABELS, with stakes 24 inches long, for permanent markings. Weatherproof, green celluloid cards. No. 10, 2 1/4 x1 1/2 inches. Each 25c; doz.\$2.50

HORTICULTURAL TOOLS AND SUNDRIES—Continued

NEW IDEA PLANT LABELS

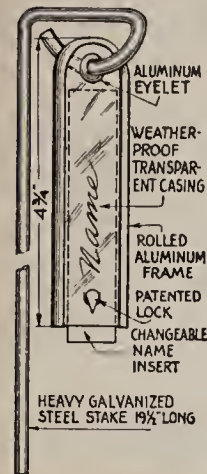
"KNOW YOUR FLOWERS"

These labels are weather proof, renewable, interchangeable and always visible. Written with a common lead pencil. Supplied with a heavy galvanized, stiff, steel rod measuring 19½ inches in height, which permits pushing deeply into the ground and prevents bending.

Each, 20c; per doz.....\$1.75
NEW IDEA RENEWALS. Per doz., 20c

PERMA-MARKER

Save the names of your plants. The greatest improvement since lead pencils were invented. All weatherproof. For writing on plant labels. Will not rub or wash off. Each.....10c



KEEP YOUR LAWN MOWER SHARP



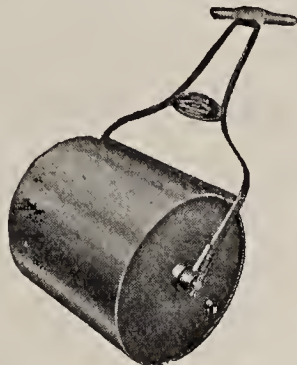
You can do it yourself easily and quickly with a Berghman Lawn Mower Sharpener. It is adjustable to all types and makes of machines and lasts forever. A few strokes on each blade and your mower cuts like new. Each\$1.00

Dunham Water-Weight Lawn Rollers

DUNHAM WATER-WEIGHT ROLLERS ARE ELECTRIC WELDED—NO RIVETS USED—THE DRUM CANNOT POSSIBLY LEAK.

If you wish a fine lawn, you must use a Lawn Roller. In no other manner can a smooth, compact surface be maintained. It packs the soil, thus retaining the moisture throughout the season, enabling young and tender grass to secure the necessary nourishment.

The Dunham Water-Weight Roller can be made as heavy or as light as desired by simply putting in the right amount of water. For storing away or for moving, it can be emptied entirely and is light and easy to handle.



No.	Dia.	Length	Weight, Empty	Weight, Filled with Water	Price
2	14 in.	24 in.	60 lbs.	175 lbs.	\$ 9.00
4	18 in.	24 in.	82 lbs.	265 lbs.	11.25
7	24 in.	24 in.	110 lbs.	420 lbs.	16.50

The above rollers weigh 50% more when filled with sand—water is more convenient.

Grow Bigger, Better, Earlier Crops With Mulch Paper—

Do Away with Weeding and Cultivating. Mulch Paper prevents the growth of weeds, preserves soil moisture and increases soil fertility. All vegetation protected and stimulated by Mulch Paper matures weeks earlier and yields larger.

Type A—Light Weight—For annual crops.

Width	Length	Sq. Ft.	Weight	Per Roll
18 in.	900 ft.	1350	27 lbs.	\$3.00
36 in.	900 ft.	2700	53 lbs.	6.00

Type B—Heavy Weight—For all purposes.

Width	Length	Sq. Ft.	Weight	Per Roll
18 in.	450 ft.	675	30 lbs.	\$3.00
36 in.	450 ft.	1350	60 lbs.	6.00

GARDEN PACKAGE. Contains 45 lineal feet of Type B Mulch Paper. Width, 18 inches. Per roll.....65c
Substantial discounts on orders of 10 rolls or more.

RAFFIA NATURAL. The best tying material for plants, also used for making baskets, etc. Per lb., 50c; 5 lbs....\$2.00

Rakes

RAKES—LAWNMASTER. "Use it like a broom." Picks up the smallest leaves or trash with an easy sweeping motion and without tearing the roots of the grass. Weighs about half as much as the ordinary lawn rake. Has 24 spring steel teeth, and is 18 inches wide; 4½-ft. basswood handle. Each85c

-----S—JAPANESE BAMBOO BROOM RAKE. Light, durable, efficient. All rakes reinforced and equipped with wood handle. 18 inches wide, each 59c; 24 inches wide, each \$1.00; 30 inches wide, each\$1.49
RAKES. Steel garden, 14 teeth.....\$1.25
PRUNING SAWS. Double cut, coarse teeth on one side of the blade, fine teeth on the opposite side. 16-inch stationary blade. Each.....\$1.25
SCYTHES, English. For grass, 32-inch, riveted back. Each\$2.25
SCYTHE SNATH. Each\$1.65
SCYTHE STONES, English. Round. Each40c

Neponset Waterproof Paper Flower Pots



Lower in cost than earthen pots and unbreakable. Domestic and commercial gardeners need the efficiency and convenience of the light weight, economical Neponset Pot. Excellent for growing, storage, shipping and miscellaneous purposes. Made of tough, waterproof paper that gives to them a lasting strength. They permit speed in handling, and if desired, it is easy to remove plants from them.

Size	Dozen	Per 100	Per 1,000
2¼-inch	\$0.10	\$0.60	\$ 4.85
2½-inch	.10	.70	5.20
3 -inch	.15	.80	6.50
3½-inch	.20	1.00	8.50
4 -inch	.25	1.20	10.25

CYCLONE BROADCAST SEED SOWER

A general seeder, which has four pressed tin flanges and distributing wheel under the bottom; gearing wheel centered, making it easy to run. Has an accurate gauge. Sloping feed board and force-feed steel frame. This is one of the most widely used types. The sack holds one-half bushel; convenient hand hold and body shield. The machine is well braced.

Price\$2.50

TIN HORN SEED SOWER. A light, accurate seeder which will broadcast clean seed from 30 to 40 ft. Length of the tube when extended is 30 inches. Good grade of heavy ducking is used on the sack. Weight, only 12 ounces. Price90c



The SACCO Spreader Model 3318

No. 1. Instantaneous feed control from handle.

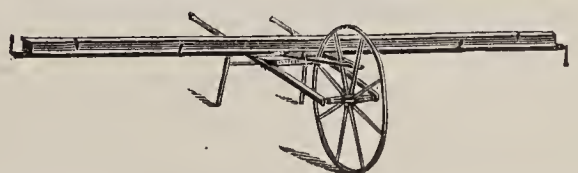
No. 2. Simple adjustment for regulating quantity.

SAVES TIME and MATERIALS

18-inch Spreader \$2.75
30-inch Spreader (with regular wheels)\$14.50



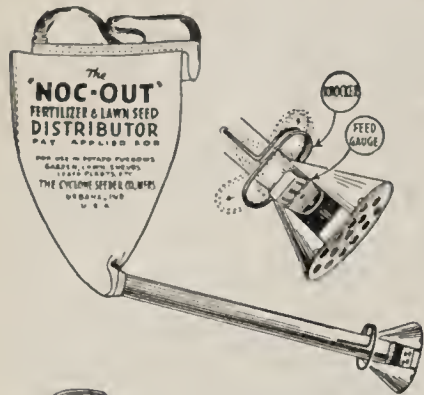
Wheelbarrow Seed Sower



WHEELBARROW SEED SOWER. Fastest of all seeders. The most accurate and economical machine for sowing broadcast, all clovers, alfalfa, timothy and all grass seeds. The quantity of seed sown is positively controlled and does not depend on the operator—the only hand seeder with this advantage. This seeder does not injure or bunch the seed, but evenly distributes it the full length of the 14-ft. hopper. A true labor and time saving device where large areas are to be sown. Each\$16.00



HORTICULTURAL TOOLS AND SUNDRIES—Continued



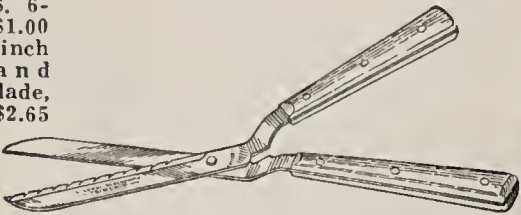
NOC-OUT FERTILIZER and LAWN SEED DISTRIBUTOR. For easy, uniform distribution of commercial fertilizer or lawn grass seed. An inexpensive time and labor saving device. Each\$1.25



SPRA-BULB—for Powder or Water

A rubber bulb sprinkler for spraying plants, moistening laundry and spraying powder on plants or animals. Designed for instant filling. The spray head comes out like a cork and the liquid or powder is sucked in through the open neck of the bulb. Each50c

HEDGE SHEARS. 6-inch blade, \$1.00 and \$1.75; 8-inch blade, \$2.00 and \$2.25; 9-inch blade,\$2.65



TROWEL. Heavy, 6-inch crucible steel, forged one-

piece. Hardwood handle85c
TROWEL. One-piece, pressed steel.....15c

TRANSPLANTING TROWELS. Can be used either as a transplanter, dibble or weed digger; blade being narrow and deeply curved20c



DANDELION WEEDER and ASPARAGUS KNIFE. Made of one-piece tempered steel.....40c

DANDELION WEEDER and ASPARAGUS KNIFE. With 43-inch clear Ash handle. Length, over all, 49 3/4 inches. Each75c

"OUT U-KUM" WEED PULLER

A slight push and pull remove not only the weed, but the entire root. A perfect weed puller. Each70c



STEEL GARDEN WEEDER. One-piece pressed steel. Has five steel fingers. Each15c

FLOWER POTS AND SAUCERS

of Extra Fine Finish and Bear Shipping Well.
No Charge for Packing. Earthenware and Flower Pots cannot be sent by Parcel Post.

Standard Flower Pots and Fern Pots

Size	Each	Dozen	Per 100
2 inch.....	\$0.03	\$0.30	\$2.00
2 1/2 " .....	.03	.35	2.50
3 " .....	.04	.40	2.75
3 1/2 " .....	.05	.45	3.25
4 " .....	.06	.50	4.00

Size	Each	Dozen	Per 100
5 inch.....	\$0.08	\$0.75	\$ 6.00
6 " .....	.12	1.20	9.00
7 " .....	.18	1.75	14.00
8 " .....	.25	2.75	20.00
10 " .....	.60	6.50	

Flower Pot Saucers

Size	Each	Dozen	Per 100
4 inch.....	\$0.04	\$0.35	\$2.50
5 " .....	.05	.50	3.50
6 " .....	.06	.60	4.50
7 " .....	.10	1.00	7.00
8 " .....	.12	1.20	
10 " .....	.20	2.00	
12 " .....	.25	2.75	



PLANT TUBS

An excellent new tub, cheap, neat and durable. Made from 3/4-inch Cypress.

No. 3.	8 inches diameter,	8 inches depth.....	\$0.80
No. 5.	10 " " " "	9 " " " "	1.00
No. 7.	12 " " " "	11 " " " "	1.50
No. 9.	14 " " " "	13 " " " "	2.00
No. 11.	16 " " " "	15 " " " "	2.50
No. 13.	18 " " " "	17 " " " "	3.50
No. 15.	20 " " " "	19 " " " "	4.75

Handles, 35c per pair extra.
All Prices Subject to Market Changes.

STOCK AND POULTRY SUPPLIES

Poultry Food

A perfectly balanced ration of grain without grit, shell or other adulterants. Current prices.

Chick Feed

A perfectly balanced ration of grain and seeds for young chicks. Current prices.

Celluloid Leg Bands

All colors and sizes. Doz., 10c; 100.....60c

Champion Leg Bands

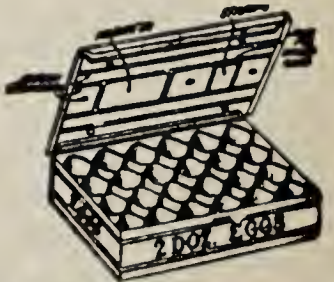
In sets, numbers 1 to 12. Set.....	15c
In sets, numbers 1 to 25. Set.....	20c
In sets, numbers 1 to 50. Set.....	35c
In sets, numbers 1 to 100. Set.....	60c

NEST EGGS. Porcelain. 5c each; 40c per dozen.

EGG CARRIERS. 1 dozen size, per dozen, 25c; per 100\$2.00

ALUMINIZED METAL EGG CRATES. For sending eggs via parcel post. Made of a light but sturdy metal, with strength built into every joint, they are nevertheless sufficiently light to carry with a minimum of carrying costs.

1 dozen size	\$0.85
1 1/2 " "	1.00
2 " "	1.25
4 " "	1.75
6 " "	2.00



STOCK AND POULTRY SUPPLIES—Continued

Dr. Hess Poultry and Stock Remedies



POULTRY PAN-A-MIN—(formerly called Pan-a-cea). Helps moulters moult. Increases egg production — reduce chick mortality. 1½ lbs., 25c; 3 lbs., 45c; 7 lbs., 85c; 15 lbs.,.....\$1.75

POULTRY VER-MI-TROL—A flock treatment for poultry infested with large, round worms. 1½ lbs., 45c; 4-lb. box, \$1.00; 10-lb. box\$2.25

POULTRY TABLETS—(formerly called Roup Tablets). To be used as local antiseptic in drinking water. 100-tablet size50c

INSTANT LOUSE KILLER—1-lb. box, 25c; 2½-lb. box.....50c

CHICK TABLETS—(Formerly called White Diarrhea Tablets). A bowel astringent given in the drinking water. 45 tablet size25c

DIP AND DISINFECTANT. Qt., 55c; ½ gal., 80c; 1 gal.,\$1.40

Grit and Shell Box

Has three compartments. Each85c

Large Capacity Feeder

A wonderful feeder for young growing stock and a great time and labor saver when chicks are raised in large number. Made of heavy galvanized iron with a large capacity. The cover is hinged and provided with no roost contrivance. Easy to fill and clean. No waste or contamination of feed.

No. 220—20-inch length. Each.....\$0.80

No. 240—40-inch length. Each..... 1.50

Dry Mash Hoppers

The improved curved bottom keeps the feed within easy reach of the birds and the taper shape of the hopper—larger at the bottom—prevents the feed from clogging and insures a gradual, automatic feed. The wire grid and the wires running from the flange through the wire grid prevent the fowls from throwing out or wasting the feed.

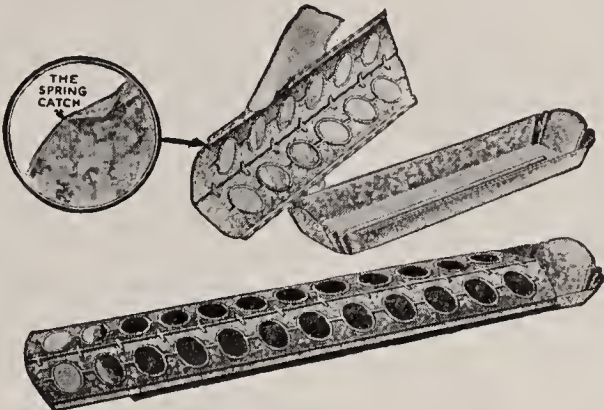
The sloping top prevents them from roosting on the hopper. When both covers are closed it is rat, mouse and weather proof.

No. 35— 8½ inches wide. Capacity, 10 quarts.....\$1.25

No. 36—12 inches wide. Capacity, 14 quarts..... 1.50

Little Putnam Stove

A Little Putnam Stove is nine inches in diameter and four inches high. The combustion is perfect, doubling the heat value of the oil. The oil tank holds three pints and burns three to four weeks without refilling or any other attention. The wick never needs trimming. Each\$2.00

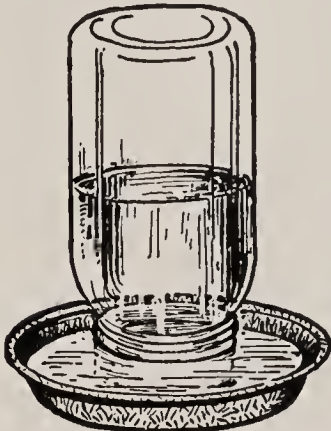


Baby Chick Feeding Trough

Made of heavy galvanized rust-proof sheet iron and used for baby chicks. Detachable top makes them easy to fill and keep clean. 11-inch length, each, 15c; 21-inch length, each, 25c.

O. K. Poultry Litter

A great labor saver and does away with most of the unpleasant work of caring for poultry. Repels vermin and is so light and springy that heavy birds do not injure themselves when alighting on it, thereby preventing bumble foot and lameness. Keeps the birds clean as it prevents the droppings from sticking to them. It is very economical as it outlasts any other litter two or three times. Prevents dampness and keeps the coops pure and sweet—there will be no unpleasant odors where it is used. Saves the cost of disinfectants. One bale will cover about 80 square feet, 3 inches deep. Per bale, \$3.50; 5 bales, \$3.25 per bale; 10 bales, \$3.00 per bale. Write for prices on larger quantities.



Mason Jar Fountain

This appliance for chicks feeds water, grain, grit, etc., automatically. Is very easy to fill and operate. Made of rustproof metal. Jar screws into cap in center of pan, affording easy cleaning. This is an absolutely sanitary fountain made to fit any half-gallon, quart or pint Mason jar. We do not furnish jars. 10c each, 3 for.....25c

LAWN PARK BROOD COOPS. Made from galvanized materials, will not rust, and is proof against all chick enemies. Size, closed, 18 x 24 inches; extended, 18 x 48 inches. Height, 19½ inches\$2.75

Square Bottom Drinking Fountain

Made of heavy galvanized iron. Easy to clean. Prevents disease. Prices, 2 qts., 80c; 1 gal., 95c; 2 gals.\$1.25

BUCKEYE INCUBATORS AND BROODERS

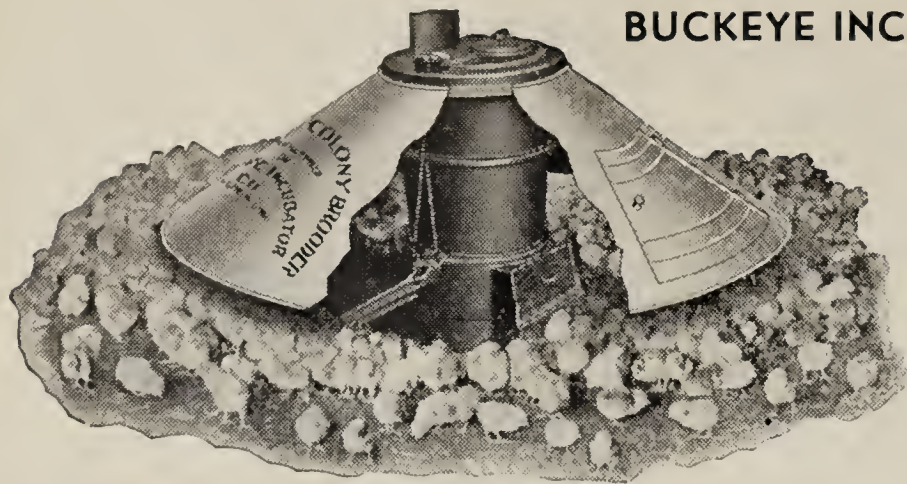


Buckeye "Electric" Colony Brooder

The Buckeye Electric Brooder gives a maximum of brooding efficiency without the disadvantages common to other brooders of this type. Generates a remarkable amount of heat with comparatively small current consumption. The heating coils are a special grade resistance wire. Designed for 100 to 125 volts, A. C. It has the exclusive Buckeye Double "Diafram" Heat Diffuser; assures a more uniform distribution of heat under the hover. The control switch is thermostatically operated. Contact points won't stick. They won't burn out. Buckeye assures perfect ventilation that prevents concentration of moisture under hover. That's important.

Ideal for poultry raisers who want to brood comparative-ly small flocks of chicks in warm brooder houses.

	No. 90	No. 91	No. 92
Chick Capacity	50	100	200
Diameter of Canopy	26 in.	36 in.	46 in.
Price	\$6.50	\$10.50	\$14.50



BUCKEYE INCUBATORS AND BROODERS—

Continued

Buckeye Coal-Burning

Colony Brooder

The Buckeye Coal Burner is the pioneer colony brooder. It has been the leader for sixteen years. It has saved millions of chicks each year for poultry raisers. It has the capacity to supply abundant heat in the worst weather. The stove is larger. It holds more coal. It burns longer with one fueling. It burns hard or soft coal. It has the famous non-clogging Rocker Grate. This grate is bigger—makes possible a larger fire body. It doesn't let the fire get choked or smothered. And the burning is regulated by a reliable thermostat which operates the Double Check Draft. This insures steady brooding temperatures. The fire won't overheat or go out. And the wonderful Buckeye Canopy revolves, making the floor under the Brooder easy to get at. The Canopy radiates heat uniformly over the brooding area. Chicks are always comfortable. They keep strong and healthy. No other coal-burning brooder is such a splendid value.

	No. 117	No. 118 A	No. 119	No. 120
Chick Capacity	300	500	1000	1200
Diameter of Canopy...	42 in.	52 in.	56 in.	60 in.
Coal Capacity.....	25 lbs.	40 lbs.	60 lbs.	75 lbs.
Smoke Pipe	4 in.	5 in.	5 in.	5 in.
Price	\$15.00	\$17.50	\$22.50	\$26.50

Buckeye "Rite-Heat" Oil-Burning

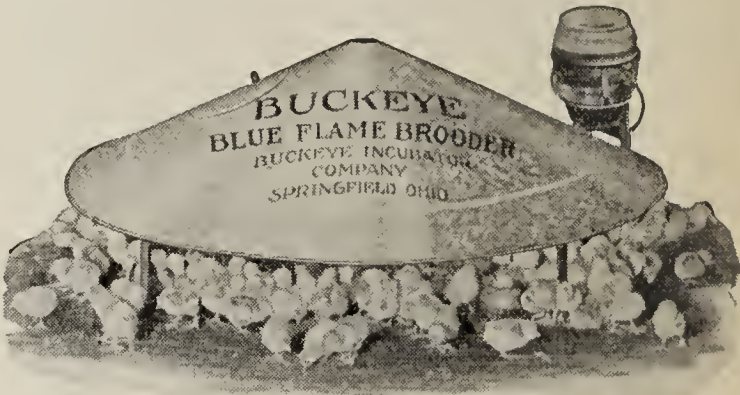
Brooders

Newly designed and perfected, large capacity, oil-burning brooders. The improved stove has two baffle plates, greatly increasing heating efficiency. The newly designed burner has an exclusive new flame spreader that throws the flame down and out to the sides of the stove. And the perfected "Rite-Heat" has a special double pre-heating chamber, thoroughly heating the air before it reaches the burner—an improvement that enables the flame to burn continuously even at a very low rate. The flame won't flare up. It won't go out. The new smoke pipe cap and back draught check damper prevent back draughts from reaching the flame.

The new "Rite-Heat" burner bowl has an overflow pipe for any excess oil that may be supplied to the burner.

The improved thermostatically controlled Heat Regulator insures ideal temperature under the hover. It has a new sight feed showing at a glance how much oil is being delivered to the burner. The Revolving Hover is a remarkable labor-saver and a marvelous deflector.

"Rite-Heat" saves chicks where other oil-burning brooders fail. Safe; dependable; durable; economical.



	No. 103	No. 104
Chick Capacity	500	1200
Diameter of Canopy.....	52 in.	62 in.
Price	\$13.00	\$15.00
4-Gallon Metal Oil Container.		

Buckeye Blue Flame

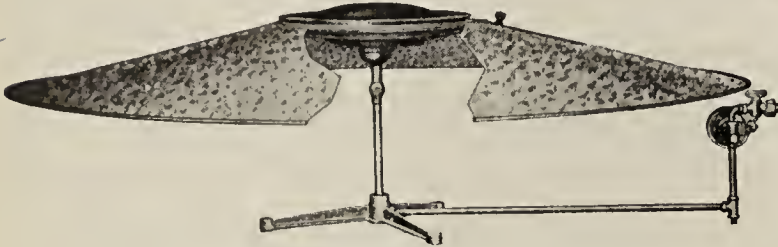
Colony Brooder

An ideal oil-burning brooder for heated or warmly constructed brooding houses. Has a powerful burner; a self-feeding oil container, holding one gallon of oil. Galvanized steel hopper supported by cast-iron legs, and equipped with "Diafram" Heat Conveyor which distributes heat uniformly and provides perfect ventilation. No complicated levers, valves or thermostats. No "oil-leveling" mechanism to contend with. Simple, easy and economical to operate.

No. 27-B. 250 Chicks, diameter, 34 in. Price.....\$8.65

No. 80-B. 350 Chicks, diameter, 42 in. Price.....\$9.25

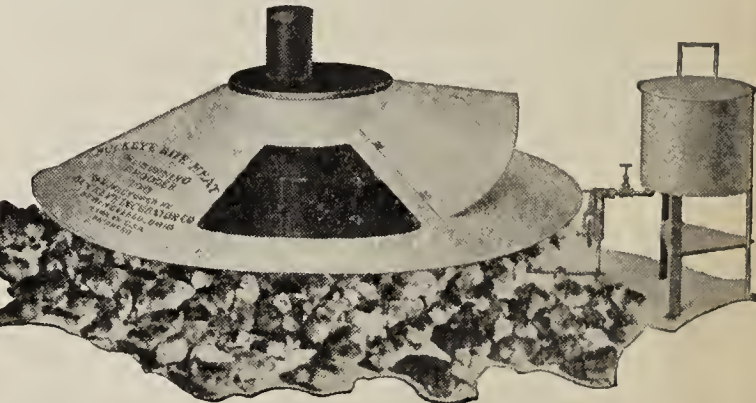
No. 81-B. 500 Chicks, diameter, 52 in. Price.....\$9.85



Buckeye Gas Burning

Colony Brooder

This is the ideal brooder to use where natural gas is cheap. It has a great new burner that effects a complete mixture of air and gas. This means a hot, clean flame without soot or



odors. A special deflector, backed with a mat of 1-inch-thick air-cell asbestos, extracts all heat from the flame and deflects it uniformly over the brooding area. Steady temperatures are maintained by accurate, positive thermostatic control. A bypass in the control valve supplies enough gas to keep the flame burning at the minimum rate. It won't go out or flare back. The canopy is made of heavy galvanized metal. It's shaped to radiate heat uniformly over the brooding area. The brooder stands on a solid pedestal which prevents any possibility of tipping. No gas-burning brooder ever built can compare with the Buckeye in safety, economy and chick-saving ability.

	No. 147	No. 156
Chick Capacity	300	600
Diameter of Canopy	47 in.	56 in.
Price	\$8.75	\$10.00

Buckeye Incubators

The new line of Buckeye Incubators affords a range of capacity from 75 to 576 eggs. This meets the demand expressed today by users of domestic incubators.

Cabinets of beautiful finish. Heavy insulation. Patented all-metal thermostat assures correct incubating temperature. Heating tank built of heavy copper. Circulates hot water perfectly. Efficient lamp with large oil capacity. Also available

with gas burner. Clean flame without odors. Underwriters' Label on all models except No. 65. A warranty against fire hazard. Automatic egg turners on four larger models prevent chilling or breaking eggs. Egg tester and thermometer free with each incubator. Buckeyes produce largest hatches of big fluffy lively chicks.

No. 65.	75 Eggs	.....	\$14.50
No. 66.	143 Eggs	.....	32.00
No. 68.	416 Eggs	.....	59.50
No. 69.	576 Eggs	.....	76.00



Books for better Gardens

SENT POSTPAID AT PRICES GIVEN

LAWNS. By F. F. Rockwell. You will find use for this information year after year, for it shows both how to start a lawn right and how to keep it smooth and velvety thereafter. Full of suggestions on laying out the lawn, grading, fertilizing, planting, care after planting, weed and pest control, and remaking and repairing old lawns. 39 illustrations, 87 pages.....\$1.00

GARDEN POOLS (Large and Small). By Ramsay and Lawrence. Nothing else can add so much to your garden as a pool, even if it is only a transformed washtub in the tiniest garden space. How to have one is fully explained in this new book. Its text is so complete and its illustrations are so numerous and practical that you can easily find the type of pool that fits in your garden and learn all about designing, planting and caring for it. 41 illustrations, 122 pages\$2.50

THE BOOK OF BULBS. By F. F. Rockwell. Will help you grow bulbs successfully for spring, summer, fall and winter flowering, inside and outside your home. The information in this book tells, and its pictures show how to grow 70 different bulbous plants including tulips, daffodils, hyacinths, lilies, gladiolus, dahlias, peonies, irises, begonias, cannas, bloodroots and dozens of others. Recommended as the most complete and newest guide to bulb growing. 187 illustrations, 264 pages\$2.00

ROCK GARDENS. By F. F. Rockwell. Shows just how you can build a rock garden yourself, on a small or large scale and at little expense. Describes the types of rock gardens, tells what soils, climates and locations are best, how to construct and what to plant for the effect you want. 31 illustrations, 86 pages\$1.00

THE PRUNING MANUAL. By L. H. Bailey. Instructions on just how and when to prune trees, shrubs and vines. Explains the physical structure of plants, their habits of growth, methods of flower and fruit bearing and how pruning can be fitted intelligently to these. 381 illustrations, 400 pages\$2.50

THE GARDENER. By L. H. Bailey. You get full advantage of Dr. Bailey's unequalled knowledge and experience in this book. It tells how to grow flowers, vegetables and fruits from the time of planting through to maturity. Special articles on different types of gardening. Information that is easy to find and simple to use. 116 illustrations. 260 pages\$2.00

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